

U.S. Department of Transportation

ISSUE: 98-11

Federal Aviation Administration





March 8, 1998 - March 14, 1998

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- III International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

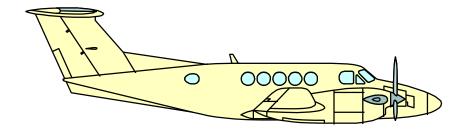
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5520	58VB	BEECH				BRACKET	CRACKED	2086	1/5/98
OACR	TJ260	58P				9561001215	ELEV HINGE		98ZZZX1025
****	WAS PERFORMEI CRACKS EXTEND METAL FATIGUE	O AND TWO OTHER CR DING FROM TOP RIGHT	ACKS WERE NOTED. BOLT HOLE UP AND OLTS (IF PART WAS I	WHEN BRACKET/HI AROUND EDGE, ALS REPLACED, ALSO, TO	NGE WAS REMOVE O, ON LOWER RT F	D AND CLEANED, THE BA ROM BOLT HOLE AND DO	OF BRACKET WAS FOUND O CK SIDE SHOWED MINOR TO WN AND AROUND. REASON T HEAD (IS INSTALLED PRO	O MODERA V FOR OCCU	TE CORROSION AND URRENCE, POSSIBLE
5511	76512	CESSNA				SPAR	MISSING	2526	10/16/97
	10944	140			0432000	0432160	HORIZONTAL STAB		98ZZZX1002
****		Γ CHANNEL/SPAR WAS UATION. IT IS AMAZIN			THE SPAR HAD NE	EVER BEEN INSTALLED FR	OM THE FACTORY. SUBMIT	TER STATI	ED THIS WAS A VERY
5330	367BT	CESSNA				SKIN	CORRODED	2045	2/24/98
	18267390	182Q					BELLY		98ZZZX1019
****		ON UNDER FACTORY I L PADS AND TREAT CO			NDED TO FUSELAC	GE BELLY SKINS UNDER C	ABIN FLOOR AND FUSELAG	E SIDE SKI	NS. RECOMMEND
3230	3929Y	CESSNA				ROLL PIN	FAILED		1/26/98
WTXR	21058429	210D				NAS561F412	GEAR CONT		98ZZZX1023
****							AT THIS TIME. CESSNA PAR UAL/100-HOUR INSPECTION		SHOWS AFFECTED PIN
3246	108H	DHAV				FITTING	CRACKED		3/2/98
	732	DHC2*				55584	FLOAT STRUT		98ZZZX1034
****							ACKED THROUGH THE TAP IE TAPER PIN PULLING IT TO		
2810	61415	HUGHES				STRAP	BROKEN	1143	2/27/98
	0010								
	0018	269C				269A832919	INBD FUEL TANK		98ZZZX1027
****	DURING A ROUT	INE PRE-FLIGHT INSPE	,			STRAP WAS LOOSE. CLOS	INBD FUEL TANK ER INSPECTION REVEALED EN OVERTIGHTENED CAUS		P WAS BROKEN. THE
*****	DURING A ROUT	INE PRE-FLIGHT INSPE	,			STRAP WAS LOOSE. CLOS	ER INSPECTION REVEALED	ING IT TO I	P WAS BROKEN. THE
	DURING A ROUTI BREAK WAS ACR	INE PRE-FLIGHT INSPEC LOSS TWO SPOT WELDS	MADE DURING MAI		TTER SUGGESTED	STRAP WAS LOOSE. CLOS THE STRAP MAY HAVE BE	ER INSPECTION REVEALED EN OVERTIGHTENED CAUS	ING IT TO I	P WAS BROKEN. THE BREAK.
7322	DURING A ROUTE BREAK WAS ACR 4561H 240767 CORROSION FOU	INE PRE-FLIGHT INSPEC OSS TWO SPOT WELDS MOONEY M20J ND INSIDE FUEL INJEC	S MADE DURING MAI LYC IO360A3B6 TOR SERVO DIAPHR	NUFACTURE. SUBMI	TTER SUGGESTED BENDIX MPEDING MOVEMI	STRAP WAS LOOSE. CLOS THE STRAP MAY HAVE BE SERVO RSA5AD1 ENT OF DIAPHRAGM REST	ER INSPECTION REVEALED EN OVERTIGHTENED CAUS CORRODED	ING IT TO I	P WAS BROKEN. THE BREAK. 12/20/97 98ZZZX1001 SPECTED WATER
7322 OF1R	DURING A ROUTE BREAK WAS ACR 4561H 240767 CORROSION FOU	INE PRE-FLIGHT INSPEC OSS TWO SPOT WELDS MOONEY M20J ND INSIDE FUEL INJEC	S MADE DURING MAI LYC IO360A3B6 TOR SERVO DIAPHR	NUFACTURE. SUBMI	TTER SUGGESTED BENDIX MPEDING MOVEMI	STRAP WAS LOOSE. CLOS THE STRAP MAY HAVE BE SERVO RSA5AD1 ENT OF DIAPHRAGM REST	ER INSPECTION REVEALED EN OVERTIGHTENED CAUS CORRODED FUEL INJECTOR RICTING FUEL FLOW. SUBM	ING IT TO I	P WAS BROKEN. THE BREAK. 12/20/97 98ZZZX1001 SPECTED WATER
7322 OF1R ****	DURING A ROUTH BREAK WAS ACR 4561H 240767 CORROSION FOU LAYING IN THIS	INE PRE-FLIGHT INSPEC LOSS TWO SPOT WELDS MOONEY M20J ND INSIDE FUEL INJECT AREA CORRODING SM.	S MADE DURING MAI LYC IO360A3B6 TOR SERVO DIAPHR	NUFACTURE. SUBMI	TTER SUGGESTED BENDIX MPEDING MOVEMI	STRAP WAS LOOSE. CLOS THE STRAP MAY HAVE BE SERVO RSA5AD1 ENT OF DIAPHRAGM REST CORROSION DEPOSIT. LA	ER INSPECTION REVEALED EN OVERTIGHTENED CAUS CORRODED FUEL INJECTOR RICTING FUEL FLOW. SUBM B REPORT ON CORROSION S	ING IT TO I	P WAS BROKEN. THE BREAK. 12/20/97 98ZZZX1001 SPECTED WATER HILA FSDO.

Run Date: 19-Mar-98

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 3/8/98 To 3/14/98

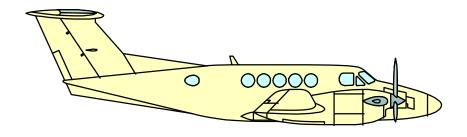
PART NUMBER								YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
0432160														
SPAR	140	1		_										1
TOTAL of # 0432160		1	-	-	-	-	-	-	-	-	-	-	-	1
269A832919														
STRAP	269C	1		_										1
TOTAL of # 269A832	2919	1	-	-	-	-	-	-	-	-	-	-	-	1
31800002	D. 22220													
POWER PACK	PA23250	1	-	-	-	-	-	-	-	-	-	-	1	-
POWER PAK	PA23160	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 3180000	2	2											1	1
4002T96P02														
TURBINE	S61N	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 4002T96	5P02	1												1
4034260														
FUEL VALVE	757*	1												1
TOTAL of # 4034260		1	-	-	-	-	-	-	-	-	-	-	-	1
55584														
FITTING	DHC2*	1												1
TOTAL of # 55584		1	-	-	-	-	-	-	-	-	-	-	-	1
9561001215 BRACKET	58P	2	-	_	-	-	-	-	_	1	-	-	-	1
TOTAL of # 9561001	215	2								1				1
NAS561F412														
ROLL PIN	210D	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # NAS561	F412	1			-		_	-		-			-	1
RSA5AD1														
FCU	unknown	1	-	-	-	-	-	-	-	-	-	-	1	-

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 3/8/98 To 3/14/98 (cont'd)

PART NUMBER								YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
RSA5AD1 FUEL SERVO	PA23250	1	-	-	-	-	1	-	-	-	-	-	-	-
INJECTOR SYSTEM	S1SPITTS	1	-	-	-	-	-	-	1	-	-	-	-	-
INJECTOR UNIT	M20E	1	-	-	-	-	-	1	-	-	-	-	-	-
SERVO	M20J	1	-	-	-	-	-	-	-	-	-	-	-	1
	PA24260	1											1	
TOTAL of # RSA5AL	01	6	-	-	-	-	1	1	1	-	-	-	2	1
TOTAL for ALL (15) PAREND OF SIGNIFICANT OCC		16	-	-	-	-	1	1	1	1	-	-	3	9



DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5520	58VB	BEECH				BRACKET	CRACKED	2086	1/5/98
OACR	TJ260	58P				9561001215	ELEV HINGE		98ZZZX1025
****	WAS PERFORMED CRACKS EXTEND METAL FATIGUE/	O AND TWO OTHER CRAING FROM TOP RIGHT	ACKS WERE NOTED. BOLT HOLE UP AND OLTS (IF PART WAS F	WHEN BRACKET/HI AROUND EDGE, ALS REPLACED, ALSO, TO	NGE WAS REMOVE O, ON LOWER RT F	D AND CLEANED, THE BA ROM BOLT HOLE AND DO	OF BRACKET WAS FOUND O CK SIDE SHOWED MINOR TO WN AND AROUND. REASON THEAD (IS INSTALLED PRO	O MODERA N FOR OCC	TE CORROSION AND URRENCE, POSSIBLE
5511	76512	CESSNA				SPAR	MISSING	2526	10/16/97
	10944	140			0432000	0432160	HORIZONTAL STAB		98ZZZX1002
****		CHANNEL/SPAR WAS JATION. IT IS AMAZIN			THE SPAR HAD NE	EVER BEEN INSTALLED FR	OM THE FACTORY. SUBMIT	TER STAT	ED THIS WAS A VERY
2820	406ES	CESSNA				HOSE	MISINSTALLED	26	2/1/98
G2AR	17280213	172R					LT WING TANK		98ZZZX1022
	DISCOVERED DUI	RING A REGULAR OIL	CHANGE WHEN A FU	EL STAIN WAS NOTI	CED ON THE WING		IPROPERLY INSTALLED ANI JRTHER INVESTIGATION UI HE TUBE.		
3246	6814H	CESSNA				WHEEL	CRACKED	3114	2/13/98
BXSR	17265594	172M				D30260	MLG		98ZZZX1013
	INSPECTION FOUL	ND WHEEL CRACKED I	N THE TYPICAL LOC	ATION. CRACKS EM	MANATING FROM E	DGE OF FLANGE HOLES.			
3240	2939E	CESSNA	CONT			LINE	FAILED	4082	2/3/98
	18268222	182R	O470U			070009993	LT BRAKE		98ZZZX999
							KE LINE WHERE LINE CHAFI I AT ANNUAL INSPECTION.	ED ON AFT	SIDE OF ENTRY STEP
5330	8480M	CESSNA				SKIN	CORRODED	3985	2/12/98
	18264618	182P					BELLY		98ZZZX1018
		ON UNDER FACTORY II CORROSION IAW SM		ISULATION PADS BO	NDED TO FUSELAC	GE BELLY SKINS UNDER C	ABIN FLOORS. RECOMMEN	D REMOVA	AL OF INSULATION
5330	367BT	CESSNA				SKIN	CORRODED	2045	2/24/98
	18267390	182Q					BELLY		98ZZZX1019
****		ON UNDER FACTORY II L PADS AND TREAT CO			NDED TO FUSELAC	GE BELLY SKINS UNDER C	ABIN FLOOR AND FUSELAG	E SIDE SKI	NS. RECOMMEND
7810	1293E	CESSNA				BRACKET	CRACKED	730	5/21/97
D99A	208B0537	208B				265401833	EXHAUST		98ZZZX1024
		T HANGER ON CESSNA ASHER SPACERS) BETW				WARD, OUTBOARD BEND	RADIUS DUE TO EXCESSIV	E STRESS C	CAUSED BY IMPROPER
3230	3929Y	CESSNA				ROLL PIN	FAILED		1/26/98
WTXR	21058429	210D				NAS561F412	GEAR CONT		98ZZZX1023
****							AT THIS TIME. CESSNA PAR UAL/100-HOUR INSPECTION		SHOWS AFFECTED PIN

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3710	732DZ	CESSNA				PUMP	FAILED	1103	12/29/97
	21061446	210L				212CW	VACUUM SYSTEM		98ZZZX1014
	VACUUM PUMP F	AILED. SUBMITTER ST	TATED ROUTINE WEA	AR CAUSED BY OPER	ATION HOURS.				
7931	2741R	CESSNA				LINE	CORRODED	4642	2/27/98
	340A0922	340A				530010816	ENG OIL PRESSURE		98ZZZX1033
				*			ROUGH AT THE LOCATION I ISATION AT THE POINT THE		
3213	7947Q	CESSNA				TRUNNION	CRACKED	9346	1/19/98
QTVR	402B0397	402B				5141001202	RETRACT EAR		98ZZZX1005
	RETRACT ATTAC	H EAR CASTING BROK	EN. SPACER P/N S13	3-4P32 AND BOLT P/N	N 464 P4-26 REPLACI	ED WITH 1 'AN' 5 BOLT AN	D OVERTORQUED CAUSING	UNDO STE	RESS TO CASTING.
3230	544AL	CESSNA				TURNBARREL	JAMMED		2/18/98
PNSA	4410120	441					LANDING GEAR		PNSA980203
	GEAR WOULD NO	OT RETRACT FULLY. S'	TEERING CABLE TU	RN BARREL BECAME	JAMMED IN NOSE	WELL. REPLACE TURNBA	RRLE, GEAR SWING CHECKE	D OK.	
3260	441LL	CESSNA				WIRE	LOOSE		2/10/98
PNSA	441139	441					SQUAT SWITCH		PNSA980207
	ENGINES WOULD	NOT CRANK. SECURE	ED WIRE AT SQUAT S	WITCH, OPS CHECK	OK.				
3246	108H	DHAV				FITTING	CRACKED		3/2/98
	732	DHC2*				55584	FLOAT STRUT		98ZZZX1034
****							ACKED THROUGH THE TAPI IE TAPER PIN PULLING IT TO		
2913	6918	PIPER				POWER PAK	RUPTURED		8/11/97
	232038	PA23160				31800002	HYDRAULIC SYSTEM	700	98ZZZX1021
****	REMOVED AND S	•	INSPECTION. THEY	FOUND BLOW HOLE	IN MAIN HOUSING		O ABNORMALITIES DURING .E. EITHER FATIGUED OR A		
2410	2175K	PIPER	CONT			COUPLING	FAILED	1000	2/23/98
ΓRKR	28R7931028	PA28RT201T	TSIO360FB			635796	ALTERNATOR DRIVE		98ZZZX998
	CHANGED ABOU'		SAME PROBLEM. FO				NATOR CHANGED ABOUT 10 SS BULLETIN NR ANE 97-04		
3213	4842T	PIPER				LINK ASSY	FAILED		2/27/98
	287225222	PA28140			62211	7803300	RT MLG		98ZZZX1017
		T HARD LANDING. UPO			E LINKS SEPARATE	O AND THE EARS WERE SI	HEARED FROM UPPER CYLIN	IDER RT M	IAIN GEAR. SUSPECT
5753	7753W	PIPER				RIB	CORRODED	3211	2/1/98
BX4R	281758	PA28180				6232801	LT FLAP NOSE		98ZZZX1004
		TE TO SEVERE CORRO NGE BRACKET. THE O					ION WENT COMPLETELY TH	ROUGH T	HE OUTBOARD RIB C

DOMESTIC	SERVICE	DIFFICULTY	REPORT SUMMARY -	AIRCRAFT (cont'd)

DOMESTI	C SERVICE DIFF	ICULTY REPORT S	SUMMARY - AIR	CRAFT (cont'd)			3/8/98 To 3/	/14/98 IS:	SUE: 98-11 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5753	7753W	PIPER				HINGE BRACKET	CORRODED	3211	2/1/98
BX4R	281758	PA28180				6232400	LT FLAP		98ZZZX1003
		E TO SEVERE CORROS IGE BRACKET. THE O					ON WENT COMPLETELY T	THROUGH T	HE OUTBOARD RIB ON
3230	15PR	PIPER				UPLOCK ROLLERS	LACK OF LUBE		2/7/98
PNSA	318052011	PA31350					NLG		PNSA980210
	NOSE GEAR WOUL	D NOT LOCK UP. CLE	ANED AND LUBED D	IRTY NOSE GEAR UI	PLOCK ROLLER, OPS	CHECK OK.			
3260	3588Z	PIPER				DNLOCK SWITCH	LACK OF LUBE		2/8/98
PNSA	318052130	PA31350					RT MLG		PNSA980205
	RT MAIN WOULD	NOT INDICATE DOWN	AND LOCKED. UNEV	ENTFUL LANDING	WAS MADE. CLEAN	ED AND LUBED GEAR AN	D SWITCHES. NO FURTHE	R PROBLEM	IS NOTED.
3222	8004N	PIPER				STRUT	REQD SERVICE		2/11/98
PNSA	328206014	PA32301					NLG		PNSA980208

NOSE GEAR SHIMMY WAS EXCESSIVE DURING TAKEOFF RUN. RETURNED TO HANGER SERVICED NOSE GEAR STRUT, OPS CHECK OK.

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7200	109MM	AGUSTA	ALLSN			ENGINE	FLAMED OUT	2656	12/15/97
HDNA	7279	A109A2	250C20				NR 1		98ZZZX1028
						IRPORT AND LANDED ON SENT IN INTAKE. AIRCRA			
7313		AGUSTA	ALLSN			FILTER	COLLAPSED		2/24/98
		A109A	250C20B		6890917	47086	FUEL NOZZLE	1284	98ZZZX1030
	FUEL NOZZLE FIL	TER IS PARTIALLY CO	LLAPSED DUE TO F	OREIGN OBJECT INSE	ERTED INTO INLET.				
2330	1072T	BELL				PA AMPLIFIER	DEFECTIVE		3/3/98
HEEA	45385	206L1				AA20030	CABIN		HEEA0013132
	PA AMPLIFIER LO	OW VOLUME.							
2840	39122	BELL				DUAL INDICATOR	FAILED		3/4/98
HEEA	3312	206B3				206075186003	COCKPIT		HEEA0013237
	DUAL INDICATOR	R LOADMETER IS INOPI	ERATIVE.						
3020	3181J	BELL				ACTUATOR	FAILED		3/4/98
HEEA	3771	206B3				206062625003	ENG ANTI ICE		HEEA0013212
	ACTUATOR INOP	ERATIVE.							
3340	1073W	BELL				POWER SUPPLY	FAILED		3/4/98
HEEA	45386	206L1				A490A	STROBE		HEEA0013254
	STROBE POWER S	SUPPLY PRODUCES WE	AK FLASH.						
3416	5742N	BELL				ALTIMETER	STUCK		3/4/98
HEEA	45477	206L1				59341	COCKPIT		HEEA0013229
	ALTIMETER NEEL	DLE STUCK AT 54,000 F	EET.						
3421	5014V	BELL				HORIZON GYRO	FAILED		3/4/98
HEEA	45217	206L1				500DCF288	COCKPIT		HEEA0013196
	HORIZ GYRO PRE	CESSES.							
3422	1073W	BELL				DIRECTION GYRO	FAILED		3/4/98
HEEA	45386	206L1				2891ESR	COCKPIT		HEEA0013259
	DG LOCKS UP; DC	DES NOT MOVE.							
3422	1078C	BELL				DIRECTION GYRO	DEFECTIVE		3/4/98
HEEA	45392	206L1				2891ESR	COCKPIT		HEEA0013257
	DIR GYRO LIGHT	ING IS OUT.							
3422	5745N	BELL				DIRECTION GYRO	MALFUNCTION		3/4/98
HEEA	45489	206L1				2891ESR	COCKPIT		HEEA0013258
	DIR GYRO INTER	MITTENTLY GETS FLAC	G INDICATOR.						
3424	6251Y	BELL				INDICATOR	FAILED		3/4/98
HEEA	51556	206L3				A593002	COCKPIT		HEEA0013235
	TURN & BANK IN	DICATOR NEEDLE DOE	ES NOT DEFLECT IN	EITHER DIRECTION					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3425	2756P	BELL				INDICATOR	FAILED		3/4/98
HEEA	2655	206B3			KI525A	066304601	COCKPIT		HEEA0013206
	DEVIATION NEED	LE STICKS.							
3452	2275Y	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	3626	206B3			KT76	066106200	COCKPIT		HEEA0013135
	TRANSPONDER OF BENCH CHECK GO		. PERFORMED PRELI	MINARY INSPECTION	N. FOUND ON/OFF S	WITCH BROKEN. REPLAC	ED FACEPLATE ASSY, RI	EPAIRED. ADJ	USTED TO SPECS.
3452	406EH	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	45183	206L1			KT76	066106200	COCKPIT		HEEA0013125
	TRANSPONDER RI	EPORTED INOPERATIV	E. NO CODE OR AL	TIMETER READOUT.					
3452	3108E	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	51498	206L3			KT76	066106200	COCKPIT		HEEA0013116
		RANSPONDER AS INOI DUE TO WEAK REPLY				DSCILLATOR V101. REPAI K GOOD.	RED. REPLACED DETERI	ORATED RES	ISTOR R477 AND
3453	5017G	BELL				LORAN	FAILED		3/3/98
HEEA	45228	206L1			KLN88	066402600	COCKPIT		HEEA0013130
	KLN88 NO DISPLA	Y.							
3457	22425	BELL				GPS	FAILED		3/3/98
HEEA	45743	206L1			GPS 150	0110005400	COCKPIT		HEEA0013124
	COCKPIT GPS HAS	S NO DISPLAY.							
3457	4180F	BELL				RECEIVER	FAILED		3/3/98
HEEA	51469	206L3				13824120234	COCKPIT GPS		HEEA0013123
	GPS RECEIVER LC	ST ALL STATIONS. "V	VPT" BUTTON BACK	LIGHTING INTERMIT	TENTLY.				
5510	3892R	BELL				STABILIZER ASSY	SEPARATED		3/4/98
HEEA	45594	206L1				206023119151	HORIZ STAB		HEEA0013256
	STAB ASSY DOUB	LER IS SEPARATED NI	EAR LEADING EDGE						
5310	7077B	BELL				BEARING	FAILED	5955	3/3/98
HEEA	52037	206L4			406040500113	406040530101	COUPLING		HEEA0013114
	BEARING BREAKI	NG DOWN ON ROLLER	R. REPLACED WITH S	SERVICEABLE PART.					
5310	7077B	BELL				INPUT SHAFT	WORN	5955	3/3/98
HEEA	52037	206L4			406040500113	406040516101	XMSN		HEEA0013115
		INES WORN BEYOND	LIMITS. REPLACED V	WITH SERVICEABLE					
5310	7077B	BELL				BEARING	GROOVED	5955	3/3/98
HEEA	52037	206L4			406040500113	406040532101	COUPLING		HEEA0013113
		OOVES ON ROLLERS. I	REPLACED WITH SEI	RVICEABLE PART.					
5510	1078D	BELL				DISC SET	CORRODED		3/3/98
HEEA	45397	206L1				327211	T/R DRIVE		HEEA0013112
		AROUND BOLT HOLES	SCRAPPED DISC AS	SSA VID BEDI VCED.	WITH SERVICEARI E		.,		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6710	1078D	BELL				SUPPORT ASSY	CORRODED		3/3/98
HEEA	45397	206L1				206001330001	CYCLIC		HEEA0013110
	CYCLIC SUPPORT	ASSY CORROSION BEY	YOND LIMITS AROUN	D BASE AREA. SCRA	APPED PART AND RE	EPLACED WITH SERVICE	ABLE PART.		
6710	513EH	BELL				ACTUATOR	FAILED		3/4/98
HEEA	45421	206L1				206062721109	DROOP COMP		HEEA0013215
	ACTUATOR INOPE	ERATIVE AND WILL NO	OT MOTOR.						
6710	6160Y	BELL				ACTUATOR	FAILED		3/4/98
HEEA	51609	206L3				206062721109	DROOP COMP		HEEA0013214
	ACTUATOR INOPI	ERATIVE AND WILL NO	OT MOTOR.						
6730	2756P	BELL				SERVO	LEAKING	4533	3/4/98
HEEA	2655	206B3				206076031017	M/R		HEEA0013204
	SERVO LEAKING.	SERIAL NUMBERS RE	MOVED ARE RH1375,	RH1779, AND RH177	7. SENT TO HELICO	TER ACCESSORY SERVIO	CE FOR OVERHAUL.		
7310	1078D	BELL				FITTING	CORRODED		3/3/98
HEEA	45397	206L1				206063637001	FUEL MANIFOLD		HEEA0013111
	FUEL MANIFOLD	FITTING ASSY. HAS EX	CESSIVE CORROSION	N ON EARS OF MANI	FOLD AROUND BOL	T HOLES. REPLACED WIT	TH SERVICEABLE PART.		
7314	31077	BELL				FUEL PUMP	WORN	6031	3/4/98
HEEA	51520	206L3				3881005	ENG FUEL		HEEA0013187
	FUEL PUMP DRIVE	E SHAFT, SHOW SIGNS	OF STEP WEAR ON SI	PLINES.					
7722	21240	BELL				INDICATOR	INTERMITTENT		3/4/98
HEEA	45647	206L1				206375006101	COCKPIT		HEEA0013238
	EXH TEMP INTER	MITTENTLY READS UP	TO 200 DEGREES LO	W.					
8010	31801	BELL				RELAY	BURNT		3/2/98
HEEA	51074	206L3				SM20ACD200A21	STARTER		HEEA0013107
	STARTER STAYS	ENGAGED. INSPECTED	BY ACCESSORY OV	ERHAUL SHOP AND	FOUND CONTACTS	WERE BURNT.			
2310	5736D	BELL				CONTROL	DEFECTIVE		3/4/98
HEEA	31135	212			KCU951	064101600	COCKPIT HF		HEEA0013175
	DISPLAY HARD T	O READ AND CHANNE	LS INTERMITTENTLY	•					
2822	3208H	BELL				PUMP	FAILED		3/4/98
HEEA	31304	212				205060606003	FUEL BOOST		HEEA0013250
	BOOST PUMP POP	PING CIRCUIT BREAKE	ER.						
6210	5736D	BELL				GRIP	WORN	11359	3/4/98
HEEA	31135	212				204011121009	M/R		HEEA0013208
	DRAG BRACE BUS	SHINGS AND PITCH HO	RN BORES WORN BE	YOND LIMITS.					
6320	5017H	BELL				GEARBOX	BINDING	5715	2/25/98
	30930	212				212040001141FM	M/R	2844	98ZZZX1009
	GEARBOX BINDIN	NG AND MAKING NOISI	E WHEN TURNED BY	HAND. NON-METAL	IC CONTAMINATIO	N FOUND ON OIL PUMP I	NLET SCREEN AND IN SUM	IP AND INTE	RNAL FILTER.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2430	8045T	BELL				RELAY	FAILED		3/4/98
HEEA	28101	214ST				214175132103	DC SYS		HEEA0013210
	BATTERY VOLTA	GE DROPS DURING STA	ART.						
2430	8045T	BELL				RELAY	FAILED		3/4/98
HEEA	28101	214ST				214175171103	BATTERY SYS		HEEA0013211
	CAUSING VOLTAG	GE TO DROP DURING E	NGINE START.						
2432	8045T	BELL				BATTERY CHARGER	MALFUNCTION		3/4/98
HEEA	28101	214ST				214175379103	DC SYS		HEEA0013209
	BATTERY SWITCH	H LIGHT REMAINS ON.							
2432	6957Y	BELL				BATTERY CHARGER	MALFUNCTION		3/4/98
HEEA	28139	214ST				214175379103	DC SYS		HEEA0013243
	BATTERY CHARG	ER VOLT SPIKES.							
2436	59806	BELL				REGULATOR	FAILED		3/4/98
HEEA	28140	214ST				214175153105	DC SYS		HEEA0013246
	VOLTAGE REGUL	ATOR UNABLE TO ADJ	UST VOLTAGE.						
2611	6957Y	BELL				SMOKE DETECTOR	FAILED		3/4/98
HEEA	28139	214ST				3023131	DET SYS		HEEA0013207
	SMOKE DETECTO	R WILL NOT TEST.							
2841	6957Y	BELL				INDICATOR	FAILED		3/4/98
HEEA	28139	214ST				214175257103	FUEL QTY		HEEA0013236
	ADC DOES NOT CO	OUNT DOWN AS FUEL	IS BURNT.						
3340	8045T	BELL				POWER SUPPLY	FAILED		3/4/98
HEEA	28101	214ST				214175127103	LIGHTS		HEEA0013200
	POWER SUPPLY U	PPER AND LOWER LIG	HT WILL NOT ILLUM	IINATE.					
3414	59806	BELL				TRANSDUCER	FAILED		3/4/98
HEEA	28140	214ST				214074152101	AIRSPEED		HEEA0013247
	AIRSPEED TRANS	DUCER INOPERATIVE.							
3421	59806	BELL				INDICATOR	PRECESSES		3/4/98
HEEA	28140	214ST				222375033103	COCKPIT		HEEA0013218
	ATTITUDE INDICA	ATOR PRECESSES DUR	NG FLIGHT.						
3454	8045T	BELL				CONTROL	FAILED		3/3/98
HEEA	28101	214ST				071121627	NAV UNIT		HEEA0013118
	DISPLAY IS NOT O BENCH CHECK GO		ΓLY. PERFORMED PR	ELIMINARY INSPEC	TION. FOUND PHOT	FOCELL LENS MISSING. IN	STALLED PHOTOCELL LE	NS P/N 088-0	0548-00. REPAIRED.
6210	6957Y	BELL				BLADE	TORN	1952	3/4/98
HEEA	28139	214ST				214015300107	M/R		HEEA0013193
	UPPER EROSION S	HIELD TORN AND SEP	ARATED AT THE OU	ΓBOARD END.					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3452	CGOFL	BELL				TRANSPONDER	FAILED		3/4/98
HEEA	53130	407			KT76	066106200	COCKPIT		HEEA0013194
	KT76 TRANSCEIVE	ER DRAWS EXCESSIVE	E CURRENT.						
3452	406PH	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	53198	407			KT76	066106200	COCKPIT		HEEA0013109
		ILL NOT IDENT AND V LL NOT DIMMING PRO				D FOUND SWITCH BOARD D.	INTERMITTENT. REPLAC	ED SWITCH	BOARD. ALSO
3452	406PH	BELL				TRANSPONDER	DEFECTIVE		3/3/98
HEEA	53198	407			KT76	066106200	COCKPIT		HEEA0013119
		EEDED. REPLACED WE EDED AND BENCH CHI		ECTOR, DETERIORA	TED R477 RESISTOR	, INSTALLED MISSING IDE	NT PUSH BUTTON AND IN	STALLED H	EAT SINK FOR Q415.
2160	3893P	BELL				MOTOR	FAILED		3/4/98
HEEA	33012	412				212073927001	TEMP CONTROL		HEEA0013213
	TEMP CONTROL M	MOTOR INOPERATIVE.							
2312	7128R	BELL				CONTROL	FAILED		3/3/98
HEEA	36007	412			KFS598	071121524	COCKPIT		HEEA0013117
	DISPLAY STAYS B LIGHTING. BENCI		PRELIMINARY INSPE	CTION. REPLACED V	7301 PHOTOCELL. R	EPAIRED. ALSO INSTALLE	ED P201 HEADER, AND APP	LIED HUMIS	SEAL. CHECKED 5V
2435	1202T	BELL				STATOR	FAILED		3/4/98
HEEA	33112	412				23046313	START/GEN		HEEA0013178
	CAUSING STARTE	R GENERATOR NOT T	O COME ON LINE, CA	AUSES GENERATOR V	VOLTMETER TO PEC	BACKWARDS AND FLASI	HING FIELD DID NOT HELF) .	
2435	107X	BELL				STARTER GEN	FAILED	142	3/4/98
HEEA	33113	412				200SG119Q	ENGINE		HEEA0013188
	STARTER GENERA	ATOR INOPERATIVE. I	NSPECTED BY ACCE	SSORY OVERHAUL S	SHOP AND FOUND U	PPER BEARING FAILED DA	MAGING FAN AND POSSII	BLY ARMAT	URE AND STATOR.
2611	3893L	BELL				SMOKE DETECTOR	FAILED		3/4/98
HEEA	33006	412				302319	CABIN		HEEA0013248
	SMOKE DET CAUT	TION LIGHT DOES NOT	ILLUMINATE.						
2823	22347	BELL				VALVE	MALFUNCTION		3/4/98
HEEA	36005	412				L88010501	FUEL SYS		HEEA0013253
	FUEL VALVE HAS	LOUD SQUEALING NO	DISE.						
2930	3911L	BELL				INDICATOR	FAILED		3/4/98
HEEA	33023	412				124043	HYD PRESS/TEMP		HEEA0013233
	HYD PRESSURE/ T	EMP LIGHT IN INOPER	RATIVE.						
3421	107X	BELL				INDICATOR	PRECESSES		3/4/98
HEEA	33113	412				222375033103	COCKPIT		HEEA0013219
	ATTITUDE INDICA	ATOR EXCESSIVE PREG	CESSING IN PITCH A	ND ROLL.					
3425	3893S	BELL				ATT INDICATOR	FAILED		3/3/98
HEEA	33022	412				5040017901	COCKPIT		HEEA0013136
		N'T PULL - DOESN'T AF	PPEAR TO COME ON	REPLACED WITH SE	RVICEABLE PART				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3425	2148K	BELL				INDICATOR	FAILED		3/4/98
HEEA	36001	412				1113025	COCKPIT		HEEA0013222
	HSI INDICATOR C	OURSE SET INOPERAT	IVE.						
3425	6559Z	BELL				HSI	FAILED		3/4/98
HEEA	36019	412				1258103	COCKPIT		HEEA0013221
	HSI HEADING SET	INOPERATIVE.							
5520	2298Z	BELL				ELEVATOR	MIS MFG		3/3/98
HEEA	33077	412				206030856111	MOUNT HOLE		HEEA0013137
	UNABLE TO INSTA	ALL ELEVATOR DUE T	O MOUNTING BOLT	HOLE MISALIGNED V	VITH HORN. INSTAI	LED SERVICEABLE ELEVA	TOR.		
6210	3893N	BELL				BLADE	UNBONDED	10727	3/3/98
HEEA	33010	412				412015300109	M/R		HEEA0013131
	M/R BLADE HAS F	RETTING PAD UNBON	DED ON LOWER LEA	DING EDGE SURFAC	E.				
6210	2148K	BELL				BLADE	CRACKED	7470	3/3/98
HEEA	36001	412				412015300109	M/R		HEEA0013122
	BLADE HAS BEEN	REPAIRED PREVIOUS	LY ON UPPER SURFA	CE AT STATION 121.2	25". THERE WAS EV	IDENCE OF SKIN CRACK A	Γ THE EDGE OF THE RE	PAIR.	
6240	2261D	BELL				INDICATOR	FAILED		3/4/98
HEEA	33076	412				412075010109	TRIPLE TACH		HEEA0013177
	TRIPLE TACH HAS	MOISTURE IN GLASS	. ALL NEEDLES HAV	E STICKY OPERATIO	N.				
6240	1202T	BELL				INDICATOR	FAILED		3/4/98
HEEA	33112	412				412075010109	TRIPLE TACH		HEEA0013174
	NR2 NEEDLE STIC	KS IN STARTUP. NEEI	DLES NR1 AND NR2 H	AVE EXCESSIVE SPL	IT. TIME SINCE REF	PAIR 34:25.			
6240	33008	BELL				INDICATOR	FAILED		3/4/98
HEEA	36004	412				412075010111	TRIPLE TACH		HEEA0013176
	TRIPLE TACH ALL	NEEDLES READ APPR	ROXIMATELY 3% HIG	H, ALSO HAVE STICK	Y OPERATION BEL	OW 20%.			
6320	108X	BELL				RING GEAR	CORRODED		3/4/98
HEEA	33115	412				205040231009	M/R GR BOX		HEEA0013197
	WORN PILOT DIA'	S AND CORROSION ON	NUPPER AND LOWER	FLANGES.					
6320	33008	BELL				SEAL	LEAKING	365	3/3/98
HEEA	36004	412			412040123101	412040101101	M/R GR BOX		HEEA0013138
	SEAL LEAKING. R	EPLACED WITH SERVI	CEABLE SEAL.						
6710	22347	BELL				ACTUATOR ROTARY	FAILED		3/4/98
HEEA	36005	412				214001347005	M/R		HEEA0013244
	ROTARY ACTUAT	OR INOPERATIVE.							
7714	3911L	BELL				INDICATOR	STICKS		3/4/98
HEEA	33023	412				212075037101	ENG N1		HEEA0013245
	ENG N1 NEEDI E E	IAS STICKY OPERATIO	ON THROUGHOUT SC	ALE.					

REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
21498	BELL				TACH GENERATOR	FAILED		3/4/98
36003	412				22A690	ENGINE		HEEA0013216
TACH GENER	ATOR INOPERATIVE.							
7128R	BELL				GENERATOR	MALFUNCTION		3/4/98
36007	412				GEU7A	ENG TACH		HEEA0013217
TACH GENER	RATOR INTERMITTENT LIGI	HT.						
54191	BOLKMS			NARCO	ELT	DEFECTIVE		3/4/98
S804	BO105S				ELT910	COCKPIT		HEEA0013241
NARCO ELT T	ΓRANSMITS SIGNAL INADV	ERTANTLY.						
91070	BOLKMS				FIRE CONT UNIT	MALFUNCTION		3/4/98
S145	BO105S				10593951	LT ENG		HEEA0013252
L/H ENGINE F	FIRE LIGHT INTERMITTENT	LY STICKS ON.						
911DD	BOLKMS				BEARING	SEIZED	490	3/3/98
S830	BO105S			D107318D1	D10731818	BOOST PUMP		HEEA0013128
PUMP INOPER	RATIVE. BEARINGS FROZE	UP CAUSING PUMP	ΓO FAIL.					
911DD	BOLKMS				BEARING	SEIZED	490	3/3/98
S830	BO105S			D107318D1	D105300010	BOOST PUMP		HEEA0013129
PUMP INOPER	RATIVE. BEARINGS FROZE	UP CAUSING PUMP	ΓO FAIL.					
137AE	BOLKMS				ANTENNA	DEFECTIVE		3/4/98
S851	BO105S				071111400	RADAR ALT		HEEA0013205
ERRATIC ALT	ΓΙΜΕΤΕR OPERATION.							
721MB	BOLKMS				LORAN	FAILED		3/4/98
S752	BO105S			ARNAV 21	4530103	COCKPIT		HEEA0013180
WHEN SCROL	LLING IN AUX OR NAV MOI	DE UNIT INTERMITT	ENTLY LOSES DISPLA	AY AND STARTS OV	/ER. INTERMITTENT IN CD	OI MODE.		
205UC	BOLKMS			KING	RMI	FAILED		3/3/98
S668	BO105S			KI229	066303800	COCKPIT		HEEA0013133
WILL NOT SL	AVE WITH HSI.							
818SH	BOLKMS			KING	RMI	FAILED		3/4/98
S753	BO105S			KI229	066303800	COCKPIT		HEEA0013255
RMI INOPERA	ATIVE.							
624MB	BOLKMS				GPS	FAILED		3/4/98
S751	BO105S			GPS 150	0110005400	COCKPIT		HEEA0013190
INNER KNOB	ON GPS WILL NOT SELECT	CORRECT CHOICE	INTERMITTENTLY.					
624MB	BOLKMS				GPS	FAILED		3/2/98
S751	BO105S			GPS 150	0110005400	COCKPIT		HEEA0013108
624MB S751		BOLKMS BO105S	BOLKMS BO105S	BO105S	BOLKMS BO105S GPS 150	BOLKMS GPS	BOLKMS GPS FAILED BO105S GPS 150 0110005400 COCKPIT	BOLKMS GPS FAILED BO105S GPS 150 0110005400 COCKPIT

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3457	8199Ј	BOLKMS				GPS	FAILED		3/4/98
HEEA	S826	BO105S			SKYNAV 5000	0845000000	COCKPIT		HEEA0013182
	GPS INOPERATIVE.								
3457	135AE	BOLKMS				GPS	FAILED		3/4/98
HEEA	S838	BO105S			GPS 150	0110005400	COCKPIT		HEEA0013189
	GPS INTERNAL BA	TTERY IS DEAD.							
5610		BOLKMS				WINDOW	MIS MFG		3/4/98
HEEA		BO105S				1054002	RT ROOF		HEEA0013199
	SKYLIGHT WAS MA	ANUFACTURED 3/16"	TOO SHORT IN WIND	OW LENGTH AND W	IDTH; THAN FACTO	ORY WIDTH.			
6230	967MB	BOLKMS				BUSHING	WORN		3/3/98
HEEA	S737	BO105S			4638001004	4619205004	M/R GR BOX		HEEA0013141
	3000 HOUR OVERH	AUL DUE. BUSHING L	OCK AREA WORN. SO	CRAPPED PART. REP	LACED WITH SERV	ICEABLE PART.			
6230	967MB	BOLKMS				ROTOR MAST	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4638205005	M/R GR BOX		HEEA0013139
	3000 HOUR OVERH	AUL DUE. MAST HAD	CORROSION IN BUS	HING BORES BEYON	ID LIMITS. SCRAPPE	ED PART. REPLACED WITH	SERVICEABLE PART.		
6230	967MB	BOLKMS				SUPPORT TUBE	WORN		3/3/98
HEEA	S737	BO105S			4638001004	4638205009	M/R GR BOX		HEEA0013140
	3000 HOUR OVERH	AUL DUE. SUPPORT T	UBE WORN ANODIZ	ED SURFACE. SCRAP	PED PART. REPLAC	CED WITH SERVICEABLE PA	IRT.		
6240	4573B	BOLKMS				TRANSMITTER	FAILED		3/4/98
HEEA	S673	BO105S				10594576	MAST MOMENT		HEEA0013239
	MAST MOMENT IN	DICATOR NO INDICA	TION IN FLIGHT.						
6240	4573B	BOLKMS				INDICATOR	FAILED		3/4/98
HEEA	S673	BO105S				10594564	MAST MOMENT		HEEA0013240
	MAST MOMENT IN	DICATOR HAS NO INI	DICATION IN FLIGHT						
6320	967MB	BOLKMS				ELBOW	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619308044	M/R GR BOX		HEEA0013153
	3000 HOUR OVERH	AUL DUE. ELBOW HA	AS CORROSION. SCR	APPED PART. REPLA	CED WITH SERVICE	EABLE PART.			
6320	967MB	BOLKMS				GEAR	SPALLED		3/3/98
HEEA	S737	BO105S			4638001004	4638304002	M/R GR BOX		HEEA0013146
	3000 HOUR OVERH	AUL DUE. GEAR SPA	LLING. SCRAPPED PA	ART. REPLACED WIT	TH SERVICEABLE PA	ART.			
6320	967MB	BOLKMS				OUTER DEFLECTION	CRACKED		3/3/98
HEEA	S737	BO105S			4638001004	1054190206	M/R GR BOX		HEEA0013142
	3000 HOUR OVERH	AUL DUE. OUTER DEF	LECTION CRACKED.	SCRAPPED PART. R	EPLACED WITH SEF	RVICEABLE PART.			
6320	967MB	BOLKMS				WASHER	WORN		3/3/98
HEEA	S737	BO105S			4638001004	4619303053	M/R GR BOX		HEEA0013143
	3000 HOUR OVERH	AUL DUE. WASHER W	ORN. SCRAPPED PAR	T. REPLACED WITH	I SERVICEABLE PAR	RT.			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320	967MB	BOLKMS				SHAFT	WORN		3/3/98
HEEA	S737	BO105S			4638001004	4638302013	M/R GR BOX		HEEA0013145
	3000 HOUR OVERH	IAUL DUE. WORN CLU	JTCH AREA. SCRAPF	PED PART. REPLACEI	D WITH SERVICEAB	LE PART.			
6320	967MB	BOLKMS				PLANETARY AXLE	PITTING		3/3/98
HEEA	S737	BO105S			4638001004	4619204001	M/R GR BOX		HEEA0013147
	3000 HOUR OVERH	IAUL DUE. PLANITAR	Y AXLE PITTING. SC	RAPPED PART. REPI	ACED WITH SERVI	CEABLE PART.			
6320	967MB	BOLKMS				CONNECTING SHAFT	WORN		3/3/98
HEEA	S737	BO105S			4638001004	4619312040	M/R GR BOX		HEEA0013148
	3000 HOUR OVERH	IAUL DUE. CONNECT	ING SHAFT DRIVE SI	PLINES WORN. SCRAI	PPED PART. REPLA	CED WITH SERVICEABLE F	ART.		
6320	967MB	BOLKMS				SUN GEAR	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619313006	M/R GR BOX		HEEA0013149
	3000 HOUR OVERH	IAUL DUE. SUN GEAR	FRETTING CORROSI	ON. SCRAPPED PART	T. REPLACED WITH	SERVICEABLE PART.			
6320	967MB	BOLKMS				SLIDING SLEEVE	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	10541961	M/R GR BOX		HEEA0013150
	3000 HOUR OVERH	IAUL DUE. SLIDING S	LEEVE HAS CORROS	SION. SCRAPPED PAR	T. REPLACED WITH	I SERVICEABLE PART.			
6320	967MB	BOLKMS				ACCY HOUSING	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619312027	M/R GR BOX		HEEA0013151
	3000 HOUR OVERH	IAUL DUE. ACCY HOU	JSING CORROSION. S	SCRAPPED PART. RE	PLACED WITH SERV	VICEABLE PART.			
6320	967MB	BOLKMS				PLANETARY GEAR	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619213010	M/R GR BOX		HEEA0013152
	3000 HOUR OVERH	IAUL DUE. PLANETAI	RY GEAR HAS CORRO	OSION. SCRAPPED PA	ART. REPLACED WI	TH SERVICEABLE PART.			
6320	967MB	BOLKMS				BALL BEARING	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619307024	M/R GR BOX		HEEA0013168
	3000 HOUR OVERH	IAUL DUE. BEARING	CORROSION. SCRAPI	PED PART. REPLACE	D WITH SERVICEA	BLE PART.			
6320	967MB	BOLKMS				SUN GEAR	SPALLED		3/3/98
HEEA	S737	BO105S			4638001004	4638304001	M/R GR BOX		HEEA0013154
	3000 HOUR OVERH	IAUL DUE. SUN GEAR	SPALLING. SCRAPP	ED PART. REPLACED	WITH SERVICEAB	LE PART.			
6320	967MB	BOLKMS				CYLINDER ROLLER	FAILED		3/3/98
HEEA	S737	BO105S			4638001004	4619303081	M/R GR BOX		HEEA0013171
	3000 HOUR OVERH	IAUL DUE. ROLLER B	EARING P/N 4638-302	2-025 RECOMMENDEI	O. SCRAPPED PART.	REPLACED WITH SERVICE	EABLE PART.		
6320	967MB	BOLKMS				BEARING	FAILED		3/3/98
HEEA	S737	BO105S			4638001004	4638302024	M/R GR BOX		HEEA0013170
	3000 HOUR OVERH	IAUL DUE. BEARING	ROLLOVER. SCRAPP	ED PART. REPLACED	WITH SERVICEAB	LE PART.			
6320	967MB	BOLKMS				ROLLER BEARING	CORRODED		3/3/98
HEEA	S737	BO105S			4638001004	4619307025	M/R GR BOX		HEEA0013169
		IAUL DUE. BEARING	CORROSION. SCRAPI	PED PART. REPLACE					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
6320	967MB	BOLKMS				BALL BEARING	CORRODED		3/3/98	
HEEA	S737	BO105S			4638001004	4619312050	M/R GR BOX		HEEA0013167	
	3000 HOUR OVERH	IAUL DUE. BEARING	CORROSION. SCRAPP	ED PART. REPLACE	D WITH SERVICEAE	BLE PART.				
6320	967MB	BOLKMS				BALL BEARING	CORRODED		3/3/98	
HEEA	S737	BO105S			4638001004	4619307023	M/R GR BOX		HEEA0013166	
	3000 HOUR OVERH	IAUL DUE. BALL BEA	RING CORROSION. SO	CRAPPED PART. REI	PLACED WITH SERV	ICEABLE PART.				
6320	967MB	BOLKMS				CYLINDER ROLLER	CORRODED		3/3/98	
HEEA	S737	BO105S			4638001004	4619312030	M/R GR BOX		HEEA0013165	
	3000 HOUR OVERHAUL DUE. CORROSION ON ROLLERS. SCRAPPED PART. REPLACED WITH SERVICEABLE PART.									
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619306020	M/R GR BOX		HEEA0013164	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER. SCRAPPE	ED PART. REPLACED	WITH SERVICEABI	LE PART.				
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619306019	M/R GR BOX		HEEA0013163	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER. SCRAPPE	ED PART. REPLACEI	WITH SERVICEABI	LE PART.				
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619303084	M/R GR BOX		HEEA0013157	
	3000 HOUR OVERH	IAUL DUE. ROLLER B	EARING ROLLOVER.	SCRAPPED PART. R	EPLACED WITH SER	RVICEABLE PART.				
6320	967MB	BOLKMS				DRIVE SHAFT	WORN		3/3/98	
HEEA	S737	BO105S			4638001004	4619303060	M/R GR BOX		HEEA0013155	
	3000 HOUR OVERH	IAUL DUE. WORN GEA	AR SET. SCRAPPED PA	ART. REPLACED WI	TH SERVICEABLE PA	ART.				
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619305042	M/R GR BOX		HEEA0013162	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER AND COR	ROSION. SCRAPPED	PART. REPLACED	WITH SERVICEABLE PART				
6320	967MB	BOLKMS				BEVEL GEAR	WORN		3/3/98	
HEEA	S737	BO105S			4638001004	4638303001	M/R GR BOX		HEEA0013156	
	3000 HOUR OVERH	IAUL DUE. BEVEL GE	AR WORN SEAT ARE	A. SCRAPPED PART.	REPLACED WITH S	ERVICEABLE PART.				
6320	967MB	BOLKMS				BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619303083	M/R GR BOX		HEEA0013158	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER. SCRAPPE	ED PART. REPLACED	WITH SERVICEABI	LE PART.				
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4619303004	M/R GR BOX		HEEA0013159	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER. SCRAPPE	ED PART. REPLACED	WITH SERVICEABI	LE PART.				
6320	967MB	BOLKMS				ROLLER BEARING	FAILED		3/3/98	
HEEA	S737	BO105S			4638001004	4638305028	M/R GR BOX		HEEA0013160	
	3000 HOUR OVERH	IAUL DUE. BEARING I	ROLLOVER. SCRAPPE	ED PART. REPLACED	WITH SERVICEABI	LE PART.				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320	967MB	BOLKMS				BALL BEARING	FAILED		3/3/98
HEEA	S737	BO105S			4638001004	4638305001	M/R GR BOX		HEEA0013161
	3000 HOUR OVER	HAUL DUE. BEARING	ROLLOVER. SCRAPPI	ED PART. REPLACED	WITH SERVICEAB	LE PART.			
6320	81832	BOLKMS				INDICATOR	FAILED		3/4/98
HEEA	S828	BO105S				4011001	XMSN OIL PRESS		HEEA0013179
	TRIPLE OIL PRESS	SURE INDICATOR FAIL	ED. TRANSMISSION	PRESSURE DROPPIN	G TO ZERO.				
6320	3071K	BOLKMS				UPPER HOUSING	CRACKED		3/3/98
HEEA	S859	BO105S			4638001001	4638201005	M/R GR BOX		HEEA0013120
	CRACK FOUND O	N INBOARD RADIUS AN	ND ACROSS RIB IN U	PPER AREA OF HOUS	ING. REPLACED WI	TH SERVICEABLE PART.			
5321	967MB	BOLKMS				BRAKE DISC	WARPED		3/3/98
HEEA	S737	BO105S			4638001004	133273	M/R GR BOX		HEEA0013144
	3000 HOUR OVER	HAUL DUE. BRAKE DI	SC WARPED. SCRAPF	ED PART. REPLACE	D WITH SERVICEAB	BLE PART.			
6410	91070	BOLKMS				BLADE	ERRODED	898	3/4/98
HEEA	S145	BO105S				10531980	T/R		HEEA0013201
	PAINT EROSION A	AT BLADE TIP ON S/N 64	46. PAINT EROSION	AND RUBBER COATI	NG PEELED OFF AT	BLADE TIP ON S/N 655.			
5520	5029Н	BOLKMS				GEAR HOUSING	DEFECTIVE		3/4/98
HEEA	S670	BO105S				4619210901	T/R HEAD		HEEA0013202
	VERIFICATION O	F "B" DIM.							
7722	4294R	BOLKMS				INDICATOR	DEFECTIVE		3/4/98
HEEA	S860	BO105S				50061036	EXH TEMP		HEEA0013234
	EXH TEMP INDIC	ATOR STATIC READING	G 50 DEGREES HIGH.						
7931	911DD	BOLKMS				INDICATOR WARN	FAILED		3/4/98
HEEA	S830	BO105S				6607190A	OIL PRESS		HEEA0013251
	OIL PRESS INDICA	ATOR HAS NO "T" OIL L	LIGHT INDICATION.						
2312	401PH	BOLKMS				RECEIVER	FAILED		3/4/98
HEEA	7050	BK117A3			RT138F	40001452500	COCKPIT		HEEA0013183
	DOES NOT TRANS	SMIT.							
6210	911RZ	BOLKMS				BLADE	SEPARATED	2772	3/3/98
HEEA	7092	BK117A4				117150071	M/R		HEEA0013173
	ABRASION STRIP	SEPARATED ON THE IN	NBOARD END BOTH	SURFACES BEYOND	LIMITS.				
6210	911RZ	BOLKMS				BLADE	SEPARATED	2772	3/3/98
HEEA	7092	BK117A4				117150071	M/R		HEEA0013172
	ABRASION STRIP	SEPARATED ON THE I	NBOARD END LOWE	R SIDE BEYOND LIM	ITS.				
6710	901CF	DOUG				BEARING	BINDING	821	1/29/98
R7MA	90000012	MD900				900C3010042105	M/R SHAFT		98ZZZX1010
			AIN ROTOR SHAFT AS	SY DURING COLLEC	TIVE MOVEMENT	REPLACED WITH NEW UN		Л	

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6710	901CF	DOUG				SERVO ACTUATOR	BINDING	1904	1/26/98
R7MA	90000012	MD900				900C3820021105	M/R CONTROL		98ZZZX1011
	M/R CONTROL SE	RVO BINDING ON DOV	VN STROKE. REPLAC	ED WITH NEW UNIT	, CORRECTED PROB	LEM.			
7160	901CF	DOUG				ACTUATOR	FAILED	26	1/26/98
R7MA	90000012	MD900				900CF330001101	INLET DOOR		98ZZZX1015
	INLET DOOR LINE	EAR ACTUATOR FAILE	D IN OPEN POSITION	REPLACED WITH N	EW UNIT, CORRECT	TED PROBLEM.			
2810	61415	HUGHES				STRAP	BROKEN	1143	2/27/98
	0018	269C				269A832919	INBD FUEL TANK		98ZZZX1027
****			*				ER INSPECTION REVEALED EN OVERTIGHTENED CAU		
6320	134KA	KAMAN				OIL PUMP	FAILED		1/20/97
OWVL	A940006	K1200			K974002009	K94120107	M/R GEARBOX		98ZZZX1016
	HAD TO REMOVE	TRANSMISSION FOR D	DAMAGED OIL PUMP	DRIVE GEAR CAUSE	D FROM OIL PUMP S	SEIZURE (NO SHEAR SHAF	T ON OIL PUMP). DATE OF	INCIDENT	1-20-97.
2210	1546K	SKRSKY				VERTICAL GYRO	MALFUNCTIONED		3/4/98
HEEA	760082	S76A				7660002113103	AFCS		HEEA0013230
	VERT GURO CAUS	SES AFCS TO PORPOISE	Ξ.						
2210	3122H	SKRSKY				POTENTIOMETER	FAILED	384	3/4/98
HEEA	760233	S76A			769000180210	7683431	AUTO PILOT		HEEA0013192
	ACTUATOR DOES	NOT MOVE. INSPECT	ED BY ACCESSORY C	VERHAUL SHOP AN	D FOUND ONE EACI	H POTENTIOMETER CHEC	KED BAD, HAD NO READIN	IG ON TEST.	
2370	706AE	SKRSKY				CVR	FAILED	655	3/3/98
HEEA	760275	S76A				9806020023	COCKPIT		HEEA0013121
	CVR WILL NOT TH	EST.							
2421	1545X	SKRSKY				GENERATOR	FAILED		3/3/98
HEEA	760050	S76A				7655009005105	AC SYS		HEEA0013126
	AC GENERATOR I	NOPERATIVE. THIS IS	THE THIRD TIME TH	IS GENERATOR WAS	REMOVED FOR BE	ING INOPERATIVE SINCE	WE RECEIVED IT OVERHA	ULED 2-28-9	7.
3421	5426U	SKRSKY				VERTICAL GYRO	FAILED		3/4/98
HEEA	760167	S76A				7660002113102	COCKPIT		HEEA0013231
	VERT GYRO MALI	FUNCTION. TAKES 5 T	O 7 MINUTES TO PUL	L FLAG ON ADI.					
3421	5426U	SKRSKY				VERTICAL GYRO	DEFECTIVE		3/4/98
HEEA	760167	S76A				7660002113102	COCKPIT		HEEA0013232
	ADI WILL FALL 90	DEGREES.							
3425	4253S	SKRSKY				INDICATOR	DEFECTIVE		3/4/98
HEEA	760035	S76A				1113025	COCKPIT		HEEA0013223
	HSI INDICATOR C	OURSE WINDOW DOES	S NOT MATCH YELLO	OW NEEDLE.					
3452	31219	SKRSKY				TRANSPONDER	FAILED		3/4/98
HEEA	760230	S76A				066104100	COCKPIT		HEEA0013184
	TRANSPONDER W	ILL NOT TRANSMIT.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3453	707AE	SKRSKY				LORAN	FAILED		3/3/98
HEEA	760276	S76A				453105004	COCKPIT		HEEA0013127
	LORAN WILL NO	Γ SELF TEST OR ANY F	UNCTION LIGHTS W	HEN TURNED ON.					
3454	22342	SKRSKY				CONTROL	FAILED		3/4/98
HEEA	760096	S76A				071121627	COCKPIT NAV		HEEA0013186
	NAV CONTROL W	ILL NOT TURN OFF WI	TH ON/OFF SWITCH.						
3454	15460	SKRSKY				RECEIVER	INTERMITTENT		3/4/98
HEEA	760223	S76A				066107800	VHF NAV		HEEA0013191
	PANEL LIGHTS IL	LUMINATE INTERMIT	ΓENTLY.						
3454	31217	SKRSKY				INDICATOR	FAILED		3/4/98
HEEA	760229	S76A			KDA697	071107600	COCKPIT		HEEA0013185
	NO. 2 VOR - GREE	N NEEDLE DOESN'T PO	DINT TO STATION BO	TH SIDES.					
6200	5128	SKRSKY				PITCH HORN	GROOVED	4298	3/3/98
HEEA	760181	S76A			761020800005	7610208011042	M/R SYS		HEEA0013134
	DEEP GROOVE ON	N INBOARD LUG (WASI	HER AREA) APPROXI	MATELY .025" IN DEI	PTH. SCRAPPED PAI	RT. REPLACED WITH SER'	VICEABLE PITCH HORN.		
6500		SKRSKY				BUSHING	OVERSIZE		3/4/98
HEEA		S76A				7635805127101	T/R		HEEA0013226
	T/R DRIVE BUSHI	NG OVERSIZED.							
6730		SKRSKY				GLAND	GOUGED		3/4/98
HEEA		S76A				30006773	M/R SERVO		HEEA0013198
	GLAND FOUND TO	O BE GOUGED AT LOW	ER OUTER END.						
7600	1546K	SKRSKY				AMPLIFIER	FAILED		3/4/98
HEEA	760082	S76A				7690001880106	DROOP COMP		HEEA0013249
	DROOP COMPENS	SATOR FAILED DCA TE	ST.						
2562	350BZ	SNIAS			NARCO	ELT	FAILED		3/4/98
HEEA	2653	AS350B2				ELT910	COCKPIT		HEEA0013242
	ELT FAILED "G" S	WITCH TEST.							
6320		SNIAS				EPICYCLIC	SCORED	3021	1/21/98
FF6R		AS350B2				350A32011000	M/R		98ZZZX1008
	EPICYCLIC SENT	IN FOR MODERATE SC	ORING ON INNER RA	CE OF THREE GEAR	S AND SLIGHT PITT	ING ON ONE GEAR.			
6410	2FOR	SNIAS				SCREW	FAILED		3/7/98
	2296	AS350B1			355A1200408	22208BC0500012L	T/R BLADE BAL		98ZZZX1029
	ALLOYED STEEL OF IT IN THE BLA PREVENT CORRO	(CODE BC- STEEL 35NO DE TIP. WHEN REMOV	C6). REMOVING THE TING THE SCREW AN INDICATED IN THE M	SCREW FROM THE TEXTRACTOR BROKE	TIP OF THE TAIL RO E ALSO IN THE BLA	TOR BLADE IN FOR A NOF DE TIP. THE BREAKING O	O HOLD THE BALANCE W RMAL BALANCING CHECK F SCREW WAS DUE TO COI CREW AS PRESCRIBED IN M	, THE SCREV RROSION. T	V BROKE WITH A PART HERE IS NO WAY TO

DOMEGRIC GEDVICE DIFFICIAL	TV DEDODT CIDALADV	HELICOPTED C ((LI)
DOMESTIC SERVICE DIFFICUL	A I I KEPUK I SUMMAK I	- HELICOPTERS (conta)

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS (cont'd) 3/8/98 To 3/14/98 ISSUE										
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
6520	992BH	SNIAS				LAMIFICATION	TORN	602	3/3/98	
HCMA	2889	AS350B2				350A33215300	REAR ROTOR		HAIHCMA0178	
	REAR ROTOR LAMIFICATION IS TORN BEYOND LIMITS AND THERE IS NO "J" GAP.									
(End of DO	(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)									

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
7200	109MM	AGUSTA	ALLSN			ENGINE	FLAMED OUT	2656	12/15/97			
HDNA	7279	A109A2	250C20				NR 1		98ZZZX1028			
		- ,					ONE ENGINE WITHOUT IN					
7313		AGUSTA	ALLSN			FILTER	COLLAPSED		2/24/98			
		A109A	250C20B		6890917	47086	FUEL NOZZLE	1284	98ZZZX1030			
	FUEL NOZZLE FI	LTER IS PARTIALLY CO	LLAPSED DUE TO FO	OREIGN OBJECT INSE	ERTED INTO INLET.							
8530	3656C	AIRTRC	PWA			CYLINDER	CRACKED	559	2/18/98			
	3010304	AT301	R1340AN1			399359	NR 2	49	98ZZZX1000			
	THE NR 2 CYLINI	THE NR 2 CYLINDER WAS FOUND CRACKED FROM THE REAR SPARK PLUG PORT TO THE FRONT SPARK PLUG PORT ON THE UPPER INTAKE SIDE OF THE CYLINDER HEAD.										
8530	5611D	BEECH	PWA			CYLINDER	SEPARATED		2/16/98			
	BA316	E18S	R985AN14B				NR 4	70	98ZZZX1031			
	ROUGHNESS, A P		DOWN WAS PERFOR				OLE. THE CYLINDER REM COMMENDED INSPECTION					
7310	1078D	BELL				FITTING	CORRODED		3/3/98			
HEEA	45397	206L1				206063637001	FUEL MANIFOLD		HEEA0013111			
	FUEL MANIFOLD	FITTING ASSY. HAS EX	CESSIVE CORROSIO	N ON EARS OF MANI	FOLD AROUND BO	LT HOLES. REPLACED WIT	TH SERVICEABLE PART.					
7314	31077	BELL				FUEL PUMP	WORN	6031	3/4/98			
HEEA	51520	206L3				3881005	ENG FUEL		HEEA0013187			
	FUEL PUMP DRIV	E SHAFT, SHOW SIGNS	OF STEP WEAR ON S	PLINES.								
7414	97428	CESSNA	LYC		SLICK	COIL	FAILED	500	2/27/98			
	15285774	152	O235N2C		M4381	M3975	ENGINE MAG		98ZZZX1020			
) HOURS BURNED THRO SURE TO MAINTAIN SA		SITE SIDE OF HIGH T	ENSION LEAD. HA	VE TO PULL COIL OUT TO	SEE DAMAGED SPOT. ENG	GINE LOST PO	OWER, TOOK MORE			
8520	269ЈН	CESSNA	CONT			ROD BEARING	FAILED		2/12/98			
T4CA	402B1213	402B	TSIO520E			SA630R26	LT ENG NR 6 CYL	1314	98ZZZX1012			
	LEFT ENGINE SPU OVERHAUL.	JN NR 6 CYLINDER ROI	D BEARING ON TRIP	BACK FROM NASSAU	J. ENGINE WAS OV	ERHAULED BY T.W. SMIT	H ENGINE. THE ENGINE H	AD 1,313.9 H	OURS SINCE			
7320	195ME	CESSNA	WILINT			ADAPTER	WORN	1408	1/21/98			
CSLR	5250110	525	FJ44			50575	START NOZZLE		98ZZZX1037			
	IN ZONE B(TIP) O		INCH IS MAX SERVIO				IM FOR DEFECTS. FRETTIN R WAS AT LAST ENGINE C					
8530	741	GRUMAV	PWA			CYLINDER	SEPARATED		2/20/98			
PNSA	B97	G21A	R985*				LT ENGINE		PNSA980204			
	LT ENGINE STAR	TED RUNNING ROUGH	AND LOST POWER,	RETURNED TO BASE	. FOUND CYLINDE	R SEPARATED FROM CASI	E. REPLACED ENGINE.					

DOMEGRIC CEDI	HOE DIEDIOLI	TTV DEDODT	CIDALLOS	- ENGINES (cont'd)
LICHNIES LIC SERV	/ 10.6. 1716610.07	1.11 KEPUKI	SUMMARY	- EINCHINES (CONTA)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7322	4561H	MOONEY	LYC		BENDIX	SERVO	CORRODED	1196	12/20/97
OF1R	240767	M20J	IO360A3B6			RSA5AD1	FUEL INJECTOR		98ZZZX1001
****							RICTING FUEL FLOW. SUBM B REPORT ON CORROSION S		
8550	9VZ	PIPER	LYC		CHAMPION	FILTER	MALFUNCTIONED	50	2/6/98
	448195002	PA44180	O360E1A6			CH48103	ENGINE OIL		98ZZZX1032
	INSPECTION REVE		IATERIAL WAS A SEA	AL USED BETWEEN			SIBLE ON THE OPENING OF TENT. AS A RESULT, UNFILT		

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2330	1072T	BELL				PA AMPLIFIER	DEFECTIVE		3/3/98
HEEA	45385	206L1				AA20030	CABIN		HEEA0013132
	PA AMPLIFIER LO	W VOLUME.							
3416	5742N	BELL				ALTIMETER	STUCK		3/4/98
HEEA	45477	206L1				59341	COCKPIT		HEEA0013229
	ALTIMETER NEEL	DLE STUCK AT 54,000 F	EET.						
3421	5014V	BELL				HORIZON GYRO	FAILED		3/4/98
HEEA	45217	206L1				500DCF288	COCKPIT		HEEA0013196
	HORIZ GYRO PRE	CESSES.							
3422	1073W	BELL				DIRECTION GYRO	FAILED		3/4/98
HEEA	45386	206L1				2891ESR	COCKPIT		HEEA0013259
	DG LOCKS UP; DC	DES NOT MOVE.							
3422	1078C	BELL				DIRECTION GYRO	DEFECTIVE		3/4/98
HEEA	45392	206L1				2891ESR	COCKPIT		HEEA0013257
	DIR GYRO LIGHT	ING IS OUT.							
3422	5745N	BELL				DIRECTION GYRO	MALFUNCTION		3/4/98
HEEA	45489	206L1				2891ESR	COCKPIT		HEEA0013258
	DIR GYRO INTER	MITTENTLY GETS FLA	G INDICATOR.						
3424	6251Y	BELL				INDICATOR	FAILED		3/4/98
HEEA	51556	206L3				A593002	COCKPIT		HEEA0013235
	TURN & BANK IN	DICATOR NEEDLE DOI	ES NOT DEFLECT IN I	EITHER DIRECTION.					
3425	2756P	BELL				INDICATOR	FAILED		3/4/98
HEEA	2655	206B3			KI525A	066304601	COCKPIT		HEEA0013206
	DEVIATION NEED	DLE STICKS.							
3452	2275Y	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	3626	206B3			KT76	066106200	COCKPIT		HEEA0013135
	TRANSPONDER O BENCH CHECK G		. PERFORMED PRELII	MINARY INSPECTION	. FOUND ON/OFF S	WITCH BROKEN. REPLAC	ED FACEPLATE ASSY, REF	PAIRED. AD	JUSTED TO SPECS.
3452	406EH	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	45183	206L1			KT76	066106200	COCKPIT		HEEA0013125
	TRANSPONDER R	EPORTED INOPERATIV	E. NO CODE OR ALT	IMETER READOUT.					
3452	3108E	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	51498	206L3			KT76	066106200	COCKPIT		HEEA0013116
		RANSPONDER AS INOI DUE TO WEAK REPLY					RED. REPLACED DETERIO	RATED RES	ISTOR R477 AND

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3453	5017G	BELL				LORAN	FAILED		3/3/98
HEEA	45228	206L1			KLN88	066402600	COCKPIT		HEEA0013130
	KLN88 NO DISPLA	ΛY.							
3457	22425	BELL				GPS	FAILED		3/3/98
HEEA	45743	206L1			GPS 150	0110005400	COCKPIT		HEEA0013124
	COCKPIT GPS HAS	S NO DISPLAY.							
3457	4180F	BELL				RECEIVER	FAILED		3/3/98
HEEA	51469	206L3				13824120234	COCKPIT GPS		HEEA0013123
	GPS RECEIVER LC	OST ALL STATIONS. "V	WPT" BUTTON BACKI	LIGHTING INTERMIT	TENTLY.				
2310	5736D	BELL				CONTROL	DEFECTIVE		3/4/98
HEEA	31135	212			KCU951	064101600	COCKPIT HF		HEEA0013175
	DISPLAY HARD TO	O READ AND CHANNE	LS INTERMITTENTL	Υ.					
3452	CGOFL	BELL				TRANSPONDER	FAILED		3/4/98
HEEA	53130	407			KT76	066106200	COCKPIT		HEEA0013194
	KT76 TRANSCEIV	ER DRAWS EXCESSIVE	E CURRENT.						
3452	406PH	BELL				TRANSPONDER	DEFECTIVE		3/3/98
HEEA	53198	407			KT76	066106200	COCKPIT		HEEA0013119
		EEDED. REPLACED WE EDED AND BENCH CHI		ECTOR, DETERIORA	TED R477 RESISTOR	, INSTALLED MISSING ID	ENT PUSH BUTTON AND I	NSTALLED H	EAT SINK FOR Q415.
3452	406PH	BELL				TRANSPONDER	FAILED		3/3/98
HEEA	53198	407			KT76	066106200	COCKPIT		HEEA0013109
		YILL NOT IDENT AND W LL NOT DIMMING PRO					D INTERMITTENT. REPLA	CED SWITCH	BOARD. ALSO
2312	7128R	BELL				CONTROL	FAILED		3/3/98
HEEA	36007	412			KFS598	071121524	COCKPIT		HEEA0013117
	DISPLAY STAYS E LIGHTING. BENC		PRELIMINARY INSPE	CTION. REPLACED V	/301 PHOTOCELL. R	EPAIRED. ALSO INSTALL	ED P201 HEADER, AND AI	PPLIED HUMIS	SEAL. CHECKED 5V
3421	107X	BELL				INDICATOR	PRECESSES		3/4/98
HEEA	33113	412				222375033103	COCKPIT		HEEA0013219
	ATTITUDE INDICA	ATOR EXCESSIVE PREC	CESSING IN PITCH AN	ND ROLL.					
3425	3893S	BELL				ATT INDICATOR	FAILED		3/3/98
HEEA	33022	412				5040017901	COCKPIT		HEEA0013136
	POWER FLAG WO	N'T PULL - DOESN'T AF	PPEAR TO COME ON.	REPLACED WITH SE	RVICEABLE PART.				
3425	2148K	BELL				INDICATOR	FAILED		3/4/98
HEEA	36001	412				1113025	COCKPIT		HEEA0013222
	HSI INDICATOR C	OURSE SET INOPERAT	TIVE.						
3425	6559Z	BELL				HSI	FAILED		3/4/98
HEEA	36019	412				1258103	COCKPIT		HEEA0013221
	HSI HEADING SET	INOPERATIVE.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND TO TO THE PART LOC. TSG	DIFF. DATE OPER CONT NO
2562	54191	BOLKMS			NARCO	ELT	DEFECTIVE	3/4/98
HEEA	S804	BO105S				ELT910	COCKPIT	HEEA0013241
	NARCO ELT TRAN	SMITS SIGNAL INADV	ERTANTLY.					
3444	137AE	BOLKMS				ANTENNA	DEFECTIVE	3/4/98
HEEA	S851	BO105S				071111400	RADAR ALT	HEEA0013205
	ERRATIC ALTIME	TER OPERATION.						
3453	721MB	BOLKMS				LORAN	FAILED	3/4/98
HEEA	S752	BO105S			ARNAV 21	4530103	COCKPIT	HEEA0013180
	WHEN SCROLLING	G IN AUX OR NAV MOI	DE UNIT INTERMITTI	ENTLY LOSES DISPLA	AY AND STARTS OV	ER. INTERMITTENT IN CDI	MODE.	
3454	205UC	BOLKMS			KING	RMI	FAILED	3/3/98
HEEA	S668	BO105S			KI229	066303800	COCKPIT	HEEA0013133
	WILL NOT SLAVE	WITH HSI.						
3454	818SH	BOLKMS			KING	RMI	FAILED	3/4/98
HEEA	S753	BO105S			KI229	066303800	COCKPIT	HEEA0013255
	RMI INOPERATIVI	E.						
3457	624MB	BOLKMS				GPS	FAILED	3/4/98
HEEA	S751	BO105S			GPS 150	0110005400	COCKPIT	HEEA0013190
	INNER KNOB ON	GPS WILL NOT SELECT	CORRECT CHOICE I	NTERMITTENTLY.				
3457	624MB	BOLKMS				GPS	FAILED	3/2/98
HEEA	S751	BO105S			GPS 150	0110005400	COCKPIT	HEEA0013108
	GPS DISPLAY FAI	DES OUT AFTER 3 TO 4	MINUTES. NOTE: FA	ADES MORE AT NIGH	T. TIME SINCE REP	PAIR 0:00.		
3457	8199J	BOLKMS				GPS	FAILED	3/4/98
HEEA	S826	BO105S			SKYNAV 5000	0845000000	COCKPIT	HEEA0013182
	GPS INOPERATIVI	E.						
3457	135AE	BOLKMS				GPS	FAILED	3/4/98
HEEA	S838	BO105S			GPS 150	0110005400	COCKPIT	HEEA0013189
	GPS INTERNAL BA	ATTERY IS DEAD.						
2312	401PH	BOLKMS				RECEIVER	FAILED	3/4/98
HEEA	7050	BK117A3			RT138F	40001452500	COCKPIT	HEEA0013183
	DOES NOT TRANS	SMIT.						
3424	988AE	CESSNA				TURN CORRDINATOR	FAILED 161	1 2/23/98
	441075	441				1394T100	COCKPIT	98ZZZX1006
	UNDER NORMAL	NIGHT FLIGHT OPERA	TIONS, PILOT SMELL	LED LIGHT SMOKE IN	COCKPIT. RETURN	NED TO BASE, FOUND TURN	CORRDINATOR INOPERABLE.	
3425	441LL	CESSNA				HSI CARD	FAILED	2/5/98
PNSA	441139	441				52D1372335	LEFT 36	4 PNSA980206
	CAPTAINS HSI CA	RD DID NOT TURN DU	RING TAXI. REPLAC	ED HSI, OPS CHECK (OK.			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2210	1546K	SKRSKY				VERTICAL GYRO	MALFUNCTIONED		3/4/98
HEEA	760082	S76A				7660002113103	AFCS		HEEA0013230
	VERT GURO CAUS	SES AFCS TO PORPOISE	•						
2210	3122H	SKRSKY				POTENTIOMETER	FAILED	384	3/4/98
HEEA	760233	S76A			769000180210	7683431	AUTO PILOT		HEEA0013192
	ACTUATOR DOES	NOT MOVE. INSPECTE	ED BY ACCESSORY	OVERHAUL SHOP AN	D FOUND ONE EAC	H POTENTIOMETER CHEC	KED BAD, HAD NO READIN	IG ON TEST.	
2370	706AE	SKRSKY				CVR	FAILED	655	3/3/98
HEEA	760275	S76A				9806020023	COCKPIT		HEEA0013121
	CVR WILL NOT TH	EST.							
421	5426U	SKRSKY				VERTICAL GYRO	FAILED		3/4/98
HEEA	760167	S76A				7660002113102	COCKPIT		HEEA0013231
	VERT GYRO MALI	FUNCTION. TAKES 5 T	O 7 MINUTES TO PU	LL FLAG ON ADI.					
3421	5426U	SKRSKY				VERTICAL GYRO	DEFECTIVE		3/4/98
HEEA	760167	S76A				7660002113102	COCKPIT		HEEA0013232
	ADI WILL FALL 90	DEGREES.							
425	4253S	SKRSKY				INDICATOR	DEFECTIVE		3/4/98
HEEA	760035	S76A				1113025	COCKPIT		HEEA0013223
	HSI INDICATOR C	OURSE WINDOW DOES	NOT MATCH YELL	OW NEEDLE.					
3452	31219	SKRSKY				TRANSPONDER	FAILED		3/4/98
HEEA	760230	S76A				066104100	COCKPIT		HEEA0013184
	TRANSPONDER W	TLL NOT TRANSMIT.							
3453	707AE	SKRSKY				LORAN	FAILED		3/3/98
HEEA	760276	S76A				453105004	COCKPIT		HEEA0013127
	LORAN WILL NOT	SELF TEST OR ANY FU	UNCTION LIGHTS W	HEN TURNED ON.					
454	22342	SKRSKY				CONTROL	FAILED		3/4/98
IEEA	760096	S76A				071121627	COCKPIT NAV		HEEA0013186
	NAV CONTROL W	ILL NOT TURN OFF WI	TH ON/OFF SWITCH						
3454	15460	SKRSKY				RECEIVER	INTERMITTENT		3/4/98
HEEA	760223	S76A				066107800	VHF NAV		HEEA0013191
	PANEL LIGHTS IL	LUMINATE INTERMITI	TENTLY.						
3454	31217	SKRSKY				INDICATOR	FAILED		3/4/98
HEEA	760229	S76A			KDA697	071107600	COCKPIT		HEEA0013185
	NO. 2 VOR - GREE	N NEEDLE DOESN'T PC	OINT TO STATION BO	OTH SIDES.					
2562	350BZ	SNIAS			NARCO	ELT	FAILED		3/4/98
HEEA	2653	AS350B2				ELT910	COCKPIT		HEEA0013242
	ELT FAILED "G" S	WITCH TEST.							

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

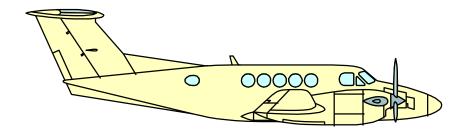
3/8/98 - 3/14/98 ISSUE: 98-11 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114	8470Y	PIPER				ZERK	LEAKING		2/4/98
PNSA	328206012	PA32301					PROP HUB		PNSA980209
-	DURING CRUISE, A	A FILM OF GREASE DE	VELOPED ON WINDS	SHIELD. RETURNED	TO BASE. REPLACE	D LEAKING GREASE ZER	K, OPS CHECK OK.		

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3213		AYRES				TUBE	CORRODED	2328	4/15/93
		S2RNORMAL				5011613	SHOCK STRUT		CA930430201
	(CAN) SHOCK STR	UT ASSEMBLIES REM	OVED TO INSTALL N	EW BISCUITS. WHEN	STRUTS DISASSEN	MBLED TUBES WERE FOUR	ND CORRODED.		
2430		BBAVIA	LYC			WIRE	CHAFED	4740	3/9/93
		8GCBC	O360C2B			99	BATTERY		CA930318404
	(CAN) WIRE FROM	I BATTERY SOLENOID	TO STARTER SOLEN	NOID IS WORN WHER	E IT TOUCHED BEL	LY PANEL FROM YEARS (OF SAGGING.		
2720		BBAVIA	LYC			PEDAL	BROKEN	4740	3/9/93
		8GCBC	O360C2B			315371	RUDDER RT FRONT		CA930318406
	(CAN) RUDDER PE	EDAL BROKE WHEN PR	ESSURE APPLIED TO	ENGAGE PARKING I	BRAKE.				
2730		BBAVIA				CABLE	FRAYED	5073	4/6/93
		8GCBC				31072	ELEVATOR UP		CA930416411
	(CAN) ELEVATOR	CABLE FOUND FRAYE	ED AT REAR FUSELA	GE PULLEY.					
2730		BBAVIA	LYC			CABLE	FRAYED	1887	4/13/93
		8GCBC	O360C2B			31072	AFT ELEV. PULLEY		CA930422213
	` '		,			TH TENSION ON CABLE A N WIRES WERE EASILY D	AND ITS POSITION, BROKEN ISCOVERED.	WIRES ARI	E DIFFICULT TO
2750		BBAVIA				CABLE	FRAYED	1882	4/1/93
		8GCBC				19023	LT FLAP PULLEY		CA930407203
	(CAN) LEFT FLAP	CABLE FOUND FRAYE	D WHERE IT PASSES	OVER FUSELAGE PU	LLEY IN WING ROO	OT. THIS SDR PROMPTED	BY ARTICLE IN FEEDBACK	4/92.	
2810		BBAVIA	LYC			TANK	CRACKED	4740	3/9/93
		8GCBC	O360C2B			71494	FUEL LT		CA930318405
	(CAN) AIRCRAFT I	LEAKING FUEL FROM	CRACK IN LT OUTBO	OARD FUEL TANK.					
5551		BBAVIA	LYC			BRACKET	BROKEN	4740	3/9/93
		8GCBC	O360C2B			22123	REAR STAB		CA930318407
	(CAN) BOTH UPPE	R AND LOWER BRACK	KETS BROKEN OFF O	F REAR HORIZONTAI	L STABILIZER ATTA	CHMENT TUBE. AIRCRA	FT TT: 5,591 HOURS.		
5711		BBAVIA	LYC			SPAR	CRACKED	4741	3/9/93
		8GCBC	O360C2B		71462	5370	WING		CA930318408
	(-)	MPRESSION CRACK FO HE GRAIN FROM THE					WN SPAR FACE. ALSO, AN 8	FOOT LON	IGITUDINAL CRACK
3221		BEECH				LUG	CORRODED		3/9/93
		A100			5082020445		NLG DRAG BRACE		CA930323106
	` '	R UPPER HOUSING (BR. CE AND NOW REPLAC	,		E ATTACH POINT. I	DAMAGED BEYOND REPA	AIRABLE LIMITS. SUBMITTI	ER NOTES I	PROBLEM WAS
3233		BEECH				MOTOR	SHORTED		3/15/93
		A100				51200040	MLG		CA930330203
	(-)	GEAR INOPERATIVE. S SCREWS ON BASE GU				ONTACTS NOT ALLOWING	G MOTOR TO CYCLE GEAR I	OOWN. FUR	RTHER INSPECTION

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5530		ВЕЕСН				ANCHOR NUT	MISSING	5131	3/10/93
		200BEECH				NAS680416	VERTICAL STAB		CA930326209
	(-)					,	LOCATED ON FORWARD F BEECH ADVISES THAT THE		
5720		BEECH				DUCT	CRACKED	6470	3/1/93
		B200					RT WING		CA930326701
	(CAN) AIR SCOOP I	DUCT IN LEADING ED	GE OF RT WING, INB	OARD OF NACELLE (CRACKED. ACFT TT	: 10,562 HOURS.			
720		BEECH				DOUBLER	DAMAGED	2650	3/21/93
		A24R				1694000137	RT FWD WING ATTH		CA930331419
	` '	O 73-20-07R2 AND BEE ORE A GROOVE. BRAC	,			KET. ATTACH BOLT NOT	TORQUED ALLOWING GROO	OVE TO WI	EAR INTO DOUBLER
230		BEECH				TERMINAL BLOCK	LOOSE	301	3/26/93
		C90A			1013841377	M81714	TB 153		CA930405301
	(CAN) LOOSE CON	TACTS ON TB 153 RES	ULTED IN AIRCREW	BEING UNABLE TO I	EXTEND LANDING (GEAR ELECTRICALLY.			
312		BEECH	PWA			HEATER	MALFUNCTION	51	2/3/93
		C90A	PT6A21			3032710	FUEL HEATER		CA930322304
720	TROUBLESHOOTIN MAINTENANCE MA	ANUAL.	ONENTS LED TO REPI	LACEMENT OF OIL/F	UEL HEATER WHIC		M. TROUBLESHOOTING PR		
720		CESSNA				CABLE	WORN	3382	
	(CAN) DT AND LT L	150M	ND EDAVED AND W	DNI AT AET DIII I EV	CTA 107 O AND ALC	040010750 SO AT FORWARD PULLEY,	RUDDER		CA930326702
	(CAN) KI AND LI F		ND FRATED AND WO	JKN AT AFT PULLET	, 51A 167.0 AND ALS			2007	#.U.00
341		CESSNA				BEARING BLOCK	CORRODED	3995	5/4/93
	(CAN) HEAVY COD	150B	WEEN TWO I FOR OF	DEADING DI OCK. D	ADT CAN ON A DE I	0411129	WING PICKUP		CA930511404
	(CAN) HEAVY COR		VEEN TWO LEGS OF	BEARING BLOCK. PA		NSPECTED WHEN WINGS			
523		CESSNA			CESSNA	RIVETS	WORKED		4/15/93
		150L				04125272	TRIM TAB HORN		CA930430409
	(CAN) CHERRY MA		PLATE TO ELEVATO	R TRIM TAB HAD WO	ORKED AND WERE I		B. PLATE COULD BE LIFTE		
211		CESSNA				BRACKET	CORRODED	3479	3/13/93
		170B				071349561	LT MLG SUPPORT		CA930323104
	(CAN) INTERGRAN	ULAR CORROSION FO	OUND ON LOWER WE	B OF LT MLG SUPPO	RT BRACKET.				
510		CESSNA			CESSNA	PIN	WORN	5278	4/20/93
		172M				MS203922C11	CREW SEATS		CA930430412
	` /	TTOM OF PILOT AND C 80 PERCENT THROUG				D. A BELLCRANK RUBS C	ON THE PINS CAUSING THE V	WEAR. LT	PIN WORN 50
823		CESSNA				O-RING	FLAT	704	3/20/93
		172M			0513120200	NAS1593010	FUEL SELECTOR		CA930331410
	(-)	AT O-RING AREA. ONI					PLACED. IN ADDITION, STE MBLE. SUBMITTER NOTES		

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT (cont'd	INTERNATIONAL	SERVICE DIFFICULT	ΓΥ REPORT SUMMARY	- AIRCRAFT (cont'd)
--	---------------	-------------------	-------------------	---------------------

3/8/98 To 3/14/98 ISSUE: 98-11 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3220		CESSNA				FITTING	LOOSE	8117	3/29/93
		172P				05430161	NOSE GEAR LOWER		CA930415517
	(CAN) TWO BOLT	S HOLDING FITTING LO	OOSE AND ALSO ALI	THE RIVETS HOLDI	NG FITTING WERE I	LOOSE OR SHEARED.			
3221		CESSNA				FITTING	CRACKED	2124	3/23/93
		172Q				95430131	NLG FIREWALL		CA930415503
	(CAN) AFTER CHE	ECKING RIVET SHEAR	AS NOTED IN FEEDB.	ACK 4/92, FITTING FO	UND CRACKED. CF	RACK 1.50 INCHES LONG.			
753		CESSNA				ROLLER ASSY	CRACKED		3/12/93
		172M				0523920	FLAPS		CA930323105
	` /						FACE. THIS PROBLEM WAS C, A 172, HAD BEGINNINGS O		
810		CESSNA	LYC			RISER	BROKEN	5703	3/26/93
		172	O320E2D			17540081	EXHAUST NR 2		CA930407211
	(CAN) WHILE DOI	NG TOUCH AND GOES,	PILOT HEARD LOUI	ABNORMAL NOISE	FROM ENGINE. AIR	CRAFT LANDED. NR 2 EX	KHAUST RISER FOUND BROK	EN.	
930		CESSNA				OIL LINE	WORN	4057	3/23/93
		172M				050011896	FIREWALL		CA930406301
	` '	JRE LINE FOUND WORL LEARANCE OK. A USEI				RBURETOR HEAT CABLE	AT FIREWALL. THREE OTH	ER SIMILA	R AIRCRAFT
820		CESSNA				FUEL LINE	CHAFED	4999	4/20/93
		180A				0500106153	WING TO CAB FLOR		CA930426306
	LOCKWIRE FROM		RREL WHICH IS ADJ	ACENT TO FUEL LIN			ND CHAFED ALMOST THROU FROM 15 TO 30 DEGREES, CF		
551		CESSNA				REINFORCEMENT	CRACKED	5279	3/15/93
		180A				07321014	STAB HINGE		CA930331407
	(CAN) CRACK FOU	UND IN BOTTOM OUTB	OARD CORNER OF S	TAB HINGE REINFOR	RCEMENT. PART TT	: 5,394 HOURS.			
920		CESSNA	LYC			HOSE	RUPTURED	933	4/20/93
		R182	O540J3C5			S123640140	ENG OIL		CA930506602
	(-)	IGHT, OIL PRESSURE V REVEALED THE OIL PR					SELLY AND ON RIGHT SIDE (OF ENGINE	E COWL. FURTHER
730		CESSNA				CABLE	CHAFED	2578	4/17/93
		A185F				051010525	ELEVATOR LOWER		CA930426604
	(CAN) LOWER ELI	EVATOR CONTROL CA	BLE FOUND BADLY	CHAFED WITH BROK	EN STRANDS. LOCA	ATED AT BULKHEAD STA	140.00, AGAINST RUB STRIP	P/N 07122	01-2.
730		CESSNA				CABLE	CHAFED	3359	4/17/93
		A185F				051010525	ELEVATOR LOWER		CA930426603
	(CAN) LOWER ELI	EVATOR CONTROL CA	BLE FOUND BADLY	CHAFED WITH BROK	EN STRANDS. LOCA	ATED AT BULKHEAD STA	140.00 AND AGAINST RUB S	TRIP P/N 0	712201-2.
810		CESSNA				FUEL CELL	DETERIORATED	6779	4/24/93
		A185F				12000654	RT WING		CA930430202
	` /	ED SEEPING ALONG TR OT IDENTIFIED BUT AC				JEL, LEAK FROM UPPER A	REA OF CELL. NOTHING OB	VIOUS FO	UND ON TANK AND

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3242		CESSNA				TORQUE PLATE	CRACKED	6740	3/15/93
		A185F				B301072	RT BRAKE		CA930330207
						IERE BRAKE CALIPER INS SUALLY CRACKS IS THE T		E RUBBING AC	GAINST BRAKE DISC
3246		CESSNA			FLUIDYNE	AXLE	BROKEN		2/17/93
		A185E					RT SKI		CA930326206
		IG, RT SKI STRUCK HA UPPORT STRUCTURE.	RD PACKED SNOW A	AND SKI AXLE FRACT	URED. RT LANDIN	G GEAR SPRING ASSY CO	LLAPSED DAMAGING RIC	GHT WING TIP,	, FUSELAGE SKIN, AND
3246		CESSNA			MCAULY	HUB	BROKEN		2/15/93
		U206F			C1630040101	D30259	LT WHEEL		CA930322301
	` /	WHEEL FAILED. OUTE UNDAMAGED RT WH				Y. NO BOLTS FAILED. RT BOLTS.	WHEEL SHOWED CRACK	S AT BOLT HO	DLES OF INNER HUB.
5751		CESSNA				HINGE ASSY	CRACKED	7736	3/29/93
		U206				122005311	AILERON		CA930416409
	(CAN) AILERON H	INGES FOUND TO HAV	E SMALL CRACKS I	N RADIUS OF MOUNT	ING FLANGE. BOT	H OUTBOARD LEFT AND	RIGHT. ALSO, P/N'S 12200	5312, 1220052-	11 AND -12.
750		CESSNA				FLAP	FAILED		3/30/93
		208B					STOP SWITCH		CA930408202
	` /					OK AND WHEN CB RESET	*		
	BOTTOMING OUT SWITCH AND DAM	IN FLAPS DOWN POSI MAGED ACTUATOR. SI	TION AND THAT FLA UBMITTER SAYS MO	APS WERE 4 TO 5 DEG ST LIKELY CAUSE O	REES SHORT OF FU FFLAP BOTTOMING	OK AND WHEN CB RESET ILL TRAVEL. RIGGING DI G IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N	D NO GOOD. DURING RIG WN SWITCH ON A "STAN	GING, FLAPS (DBY FLAP TES	OVERRAN UPSTOP ST", WARPING
2750	BOTTOMING OUT SWITCH AND DAM	IN FLAPS DOWN POSI MAGED ACTUATOR. SI	TION AND THAT FLA UBMITTER SAYS MO	APS WERE 4 TO 5 DEG ST LIKELY CAUSE O	REES SHORT OF FU FFLAP BOTTOMING	ILL TRAVEL. RIGGING DI G IS IF FLAP OVERRAN DO	D NO GOOD. DURING RIG WN SWITCH ON A "STAN	GING, FLAPS (DBY FLAP TES	OVERRAN UPSTOP ST", WARPING
2750	BOTTOMING OUT SWITCH AND DAM	IN FLAPS DOWN POSI MAGED ACTUATOR. SI SUPPORT, THUS, ALTE	TION AND THAT FLA UBMITTER SAYS MO	APS WERE 4 TO 5 DEG ST LIKELY CAUSE O	REES SHORT OF FU FFLAP BOTTOMING	ILL TRAVEL. RIGGING DI G IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU	GING, FLAPS (DBY FLAP TES ILL FLAPS SEL	OVERRAN UPSTOP ST", WARPING LDOM USED.
2750	BOTTOMING OUT SWITCH AND DAN ACTUATOR FLAP	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING	APS WERE 4 TO 5 DEG IST LIKELY CAUSE OF SO THAT FLAPS BOT	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA	ILL TRAVEL. RIGGING DI G IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT	GING, FLAPS (DBY FLAP TESTLL FLAPS SEL	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703
	BOTTOMING OUT SWITCH AND DAN ACTUATOR FLAP	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING	APS WERE 4 TO 5 DEG IST LIKELY CAUSE OF SO THAT FLAPS BOT	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA	ILL TRAVEL. RIGGING DE GIS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET 26221101	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT	GING, FLAPS 0 DBY FLAP TES ILL FLAPS SEL 289 PER ATTACH	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703
2750 2750	BOTTOMING OUT SWITCH AND DAN ACTUATOR FLAP	IN FLAPS DOWN POSI MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING	APS WERE 4 TO 5 DEG IST LIKELY CAUSE OF SO THAT FLAPS BOT	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA	ILL TRAVEL. RIGGING DI G IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET 26221101 ENTLY CAUSED BY ELON	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP	GING, FLAPS 0 DBY FLAP TES ILL FLAPS SEL 289 PER ATTACH	OVERRAN UPSTOP ST", WARPING LDOM USED. 2/28/93 CA930326703 BRACKETS.
	BOTTOMING OUT SWITCH AND DAN ACTUATOR FLAP (CAN) FLAPS FOU	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS.	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OI SO THAT FLAPS BOT BOARD, WERE LOOSE	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR	ILL TRAVEL. RIGGING DE GIS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET 26221101 ENTLY CAUSED BY ELON BELLCRANK	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS	GING, FLAPS 0 DBY FLAP TE: ILL FLAPS SEI 289 PER ATTACH 5806	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601
2750	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS.	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OI SO THAT FLAPS BOT BOARD, WERE LOOSE	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR	ILL TRAVEL. RIGGING DE GIS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET 26221101 ENTLY CAUSED BY ELON BELLCRANK DDA000284	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS	GING, FLAPS ODBY FLAP TESTLL FLAPS SELENTED 289 PER ATTACH 5806 TIONS. RT INI	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601
	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS.	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE	REES SHORT OF FU F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR	ILL TRAVEL. RIGGING DE GIS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN N BRACKET 26221101 EENTLY CAUSED BY ELON BELLCRANK DDA000284 FAIRCRAFT AS IF IN STRO	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI	GING, FLAPS ODBY FLAP TESTLL FLAPS SELENTED 289 PER ATTACH 5806 TIONS. RT INI	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601 BOARD BELLCRANK
2750	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. ES. CESSNA 208B	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI FLAPS RETRACTED P BELLCRANKS - INI	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF	ILL TRAVEL. RIGGING DEG IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN MERCE BRACKET 26221101 SENTLY CAUSED BY ELON BELLCRANK DDA000284 FAIRCRAFT AS IF IN STROBRACKET	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI LOOSE FLAPS LT	GING, FLAPS ODBY FLAP TEXTLL FLAPS SELENT SE	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601 BOARD BELLCRANK 2/28/93 CA930322302
2750 5753	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. ES. CESSNA 208B ND LOOSE. BOTH FLA	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI FLAPS RETRACTED P BELLCRANKS - INI	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF	ILL TRAVEL. RIGGING DEG IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN MERCE BRACKET 26221101 SENTLY CAUSED BY ELON BELLCRANK DDA000284 FAIRCRAFT AS IF IN STROBRACKET 26221101	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI LOOSE FLAPS LT	GING, FLAPS ODBY FLAP TESTLL FLAPS SELENT SE	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601 BOARD BELLCRANK 2/28/93 CA930322302
2750 5753	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. ES. CESSNA 208B ND LOOSE. BOTH FLA LOOSE. BOTH FLA	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI FLAPS RETRACTED P BELLCRANKS - INI PART TOTAL CYCLE	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF	ILL TRAVEL. RIGGING DEGING IN SET FLAP OVERRAN DO AKING LIMIT SWITCH IN SET 100 BRACKET 26221101 ENTLY CAUSED BY ELON BELLCRANK DDA000284 FAIRCRAFT AS IF IN STROES BRACKET 26221101 ED BY ELONGATION OF HELD BY ELONGATION OF HELD BY ELONGATION OF HELD BY STROES BRACKET 26221101	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS ING DOWNDRAFT CONDI LOOSE FLAPS LT DLES IN THE UPPER ATTA	GING, FLAPS ODBY FLAP TESTLL FLAPS SELENT SE	OVERRAN UPSTOP ST", WARPING LDOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601 BOARD BELLCRANK 2/28/93 CA930322302 SS. ALSO, RT BRACKET
2750 5753	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU P/N 26221102 HAD (CAN) STABILIZEI SHEARED. THE ST	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. ES. CESSNA 208B ND LOOSE. BOTH FLA ELONGATED HOLES. CESSNA 210L R ATTACH BRACKET F	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI PART TOTAL CYCLE CONT IO520L TOUND HELD IN PLACE RATED FROM THE FU	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO BOARD, WERE LOOSE ES, 1,762. ACFT: 7,239	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF THIS WAS CAUSE HOURS. 12324001 3 BOLTS REQUIRES	ILL TRAVEL. RIGGING DEG IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN PERCENTION OF AKING LIMIT SWITCH IN PERCENTLY CAUSED BY ELON BELLCRANK DDA000284 FAIRCRAFT AS IF IN STROED BRACKET 26221101 ED BY ELONGATION OF HOME	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT GATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI LOOSE FLAPS LT DLES IN THE UPPER ATTA SHEARED STABILIZER R BOLTS FOUND IN FUSE	GING, FLAPS ODBY FLAP TESTLL FLAPS SELECTED SELE	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93
2750 5753 5551	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU P/N 26221102 HAD (CAN) STABILIZEI SHEARED. THE ST	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. SS. CESSNA 208B ND LOOSE. BOTH FLA ELONGATED HOLES. CESSNA 210L R ATTACH BRACKET F	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI PART TOTAL CYCLE CONT IO520L TOUND HELD IN PLACE RATED FROM THE FU	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO BOARD, WERE LOOSE ES, 1,762. ACFT: 7,239	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF THIS WAS CAUSE HOURS. 12324001 3 BOLTS REQUIRES	ILL TRAVEL. RIGGING DEG IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN MERCHET 26221101 BERACKET 26221101 BELLCRANK DDA000284 FAIRCRAFT AS IF IN STROUGH BRACKET 26221101 ED BY ELONGATION OF HOUSE BOLT AN509416R13 D. PIECES OF THE 2 OTHER	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT GATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI LOOSE FLAPS LT DLES IN THE UPPER ATTA SHEARED STABILIZER R BOLTS FOUND IN FUSE	GING, FLAPS ODBY FLAP TESTLL FLAPS SELECTED SELE	OVERRAN UPSTOP ST", WARPING .DOM USED. 2/28/93
2750	BOTTOMING OUT SWITCH AND DAM ACTUATOR FLAP (CAN) FLAPS FOU (CAN) FLAPS SELI FOUND IN 2 PIECE (CAN) FLAPS FOU P/N 26221102 HAD (CAN) STABILIZEI SHEARED. THE ST	IN FLAPS DOWN POST MAGED ACTUATOR. SI SUPPORT, THUS, ALTE CESSNA 208B ND LOOSE. BOTH FLA CESSNA 208B ECTED AT 115 KNOTS. SS. CESSNA 208B ND LOOSE. BOTH FLA ELONGATED HOLES. CESSNA 210L R ATTACH BRACKET F TABILIZER WAS SEPAR 209. RIVETS HAD BEEN	TION AND THAT FLA UBMITTER SAYS MO ERING THE RIGGING P BELLCRANKS - INI PART TOTAL CYCLE CONT IO520L TOUND HELD IN PLACE RATED FROM THE FU	APS WERE 4 TO 5 DEG ST LIKELY CAUSE OF SO THAT FLAPS BOT BOARD, WERE LOOSE WITH A SUDDEN DO BOARD, WERE LOOSE ES, 1,762. ACFT: 7,239	REES SHORT OF FUE F FLAP BOTTOMING TOMED BEFORE MA TOMED BEFORE MA THIS WAS APPAR WNWARD DROP OF THIS WAS CAUSE HOURS. 12324001 3 BOLTS REQUIRES	ELL TRAVEL. RIGGING DEG IS IF FLAP OVERRAN DO AKING LIMIT SWITCH IN PERSONAL PROPERTY OF THE PROPERTY OF THE PERSONAL PRO	D NO GOOD. DURING RIG WN SWITCH ON A "STAN NORMAL OPERATION. FU LOOSE FLAPS LT IGATION OF HOLES IN UP BROKEN FLAPS NG DOWNDRAFT CONDI LOOSE FLAPS LT DLES IN THE UPPER ATTA SHEARED STABILIZER R BOLTS FOUND IN FUSE TRANSMITTED STRESS	GING, FLAPS ODBY FLAP TESTLL FLAPS SELECTED SELE	OVERRAN UPSTOP ST", WARPING LDOM USED. 2/28/93 CA930326703 BRACKETS. 2/20/93 CA930316601 BOARD BELLCRANK 2/28/93 CA930322302 S. ALSO, RT BRACKET 3/17/93 CA930318401 TING THAT THEY HAELER PLATE, P/N

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2750		CESSNA				CABLE	BROKEN		3/16/93
		402B				50000083	FLAP		CA930331408
	(CAN) LEFT FLAP	NOT FULLY EXTENDIN	NG CAUSING AN ASY	MMETRICAL FLAP. I	FLAP EXTEND CAB	LE FOUND BROKEN.			
2752		CESSNA				ACTUATOR	FAILED		4/28/93
		402B				51152401	FLAPS		CA930511408
	(CAN) FLAP ACTU	ATOR OPERATION NO	ISY WHEN FLAPS EX	ΓENDED AFTER LAN	DING FLAPS FAILE	D TO OPERATE AGAIN. FL	APS REMAINED SYMMETE	RICAL.	
3010		CESSNA			BFGOODRICH	DEICE BOOT	TORN		4/6/93
		404CESSNA					WINGS		CA930422207
	'	NT REFERENCE LOSS I AD A SUBSTANTIAL LI				FOUND IN LEFT WING OUT	BOARD DEICE BOOT AT O	UTBOARD E	ND. LEFT WING
2620		CESSNA				BRACKET	CRACKED	3596	4/14/93
		441				57920013	FIRE EXT LT		CA930511402
	(/	TINGUISHER BOTTLE I EEN PREVIOUSLY REPA		IEEL WELL FOUND (CRACKED. IF LEFT	UNNOTICED, DAMAGE TO	GEAR AND RETRACTION	MECHANISI	M COULD RESULT.
2710		CESSNA				CABLE	WORN	1200	10/6/92
		441				581510326	AIL LT&RT		CA930511409
	(CAN) LT AND RT	AILERON CABLES FOU	JND WITH ABNORMA	L WEAR, WHERE TH	EY PASS THROUG	H A WING RIB.			
2721		CESSNA				PUSHROD	CRACKED		3/2/93
		500CESSNA			553320016	556540060	RUDDER TRIM		CA930331404
	(CAN) RUDDER TF	RIM ROD FOUND CRAC	KED. LIKELY CAUSI	ED BY WATER FREEZ	ING IN TUBE. SPL	IT ABOUT 4 INCHES LONG.			
2150		CESSNA				AIR CYCLE MACH	FAILED	12711	3/26/93
		501				738384	CABIN AIR		CA930413409
	, , ,			*		INTO CABIN. WARMER C REPLACED. PART TC: 16		CABIN ALT	TITUDE DECREASED
5510		DHAV				FRONT SPAR	CRACKED		4/30/93
		DHC2MK1				C2TP57	HORIZ STAB		CA930510406
	(CAN) SPAR CRAC	KED AT ATTACHMEN	T POINTS. REF AD C	F-91-42 SB 2/47.					
3213		DHAV				BOLT	BROKEN		4/12/93
		DHC3				C3US10110	RH SKI ATT BOLT		CA930426305
	(CAN) BOLT APPE	ARS TO HAVE CRYSTA	LIZED DUE TO CYCI	ES LUBRICATION W.	ASHED AWAY.				
3246		DHAV				BOLT	BROKEN		3/29/93
		DHC3				C3US1563	REAR A FRAME		CA930407301
	(CAN) ON ROUGH DAMAGE TO THE		SKI JAMMED AGAIN	ST THE TIRE BRINGI	NG THE AIRCRAFT	TO AN ABRUPT STOP. TH	E REAR BOLT ON THE A-FI	RAME HAD I	FAILED CAUSING
3246		DHAV				SWIVEL FITTING	CRACKED		3/13/93
		DHC3				C3UF89	FLOAT		CA930330101
	(CAN) SWIVEL EIT	TING HIDDED EDONT C	TRUT FOUND OF ACK	ED ON FORWARD LU	iG				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2430		DHAV	PWA			GROUND LEAD	LOOSE		3/13/93
		DHC6	PT6A27				DC SYS		CA930330305
	(CAN) NEW CIRCU CAUSING HIGH C		. POSITIVE LEAD GR	OUNDED TO CASE S	URFACES NOT SEAI	LED CAUSING INTERNAL I	LEAK. BOTH BRUSH SCREW	'S LOOSE. 1	BRUSHES NOT RUN IN
2820		DHAV	PWA			TUBE ASSY	TWISTED		4/22/93
		DHC6300	PT6A27			C6PF11521	3 CELL INTERCONN		CA930428602
	(CAN) ON INSPEC	TION TWO FUEL LINES	ONE EACH SIDE CO	MING OUT OF 3 FUE	L CELL FOUND TWI	STED. LINE NOT HELD WI	HILE TIGHTENING NUT.		
2913		DHAV	PWA		DELCO	HYD MOTOR	OVERHEATED		3/25/93
		DHC6300	PT6A27		4100689004	A9373M1	WINDINGS		CA930413408
	(CAN) CREW NOT PULLED, SMOKE S		IP RUNNING CONTIN	IUOUSLY AND SLIGH	IT ODOR OF SMOKE	E FOLLOWED BY VERY LIT	TLE SMOKE IN COCKPIT. H	IYDRAULI(C CIRCUIT BREAKER
3246		DHAV	PWA			WHEEL HALF	BROKEN		4/7/93
		DHC6300	PT6A27			9543077	OUTER		CA930430405
	(CAN) TIRE DEFLA	ATED DUE TO BROKEN	WHEEL.						
5751		DHAV				HINGE	CORRODED		3/9/93
		DHC6200				C6TEM101529	LT ELEVATOR		CA930511107
	(CAN) LT ELEVAT	TOR OUTBOARD HINGE	E FITTING CORRODE	D BEYOND LIMITS.					
7810		DHAV				DUCT ASSY	CRACKED	4896	3/4/93
		DHC6300				3012290	LT ENG EXH		CA930426605
	MATCHED THE L' MAINTENANCE F	T POWER LEVER WAS	ONE INCH AHEAD OI EXHAUST DUCT WA	F THE RIGHT HAND F S CRACKED AND BU	OWER LEVER AND	THE LT T5 AND WF WERE	DRQUE LOWER THAN RIGHT HIGHER THAN RT ENGINE. ES MISSING. THE LT ENGIN	AFTER TH	IE FLIGHT
3211		GULSTM			GULSTM	SIDE BRACE	CRACKED	736	5/3/93
		112A				453031	LT MLG		CA930511401
	(CAN) LEFT MAIN	LANDING GEAR SIDE	BRACE FAILED AT U	IPPER END NEAR ACT	TUATOR ATTACH P	OINT.			
5320		GULSTM				DECK	CRACKED	8146	4/12/93
		GA7				7B105181	STA 266 TO 284		CA930415511
	(-)					ONG. BRACKET WHICH IS INSTALLATION. ACFT TO	RIVETED TO DECK WAS PAC: 11,093 HOURS.	RTIALLY 1	DETACHED. PUTTING
5720		MAULE			MAULE	BRACE	CRACKED	1002	3/31/93
		M5210C				2030B	STRUT		CA930331403
	` /	UND IN COMPRESSION WING SPARS OK. PILO					N WING BETWEEN FRONT A	ND REAR S	SPAR AT WING LIFT
2750		MAULE	LYC		MAULE	SET SCREW	LOOSE		4/26/93
		M7235	IO540W1A5				FLAP HANDLE		CA930510414
	(CAN) SET SCREW LANDING.	V LOCATED IN FLAP HA	ANDLE - RELEASE B	UTTON CAME LOOSE	E AND ALLOWED TH	HE BUTTON TO FALL OFF.	FLAPS COULD NOT BE LOC	KED IN PO	SITION FOR

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3260		MAULE	LYC			SWITCH	OUT OF ADJUST		4/26/93
		M7235	IO540W1A5				FLOATS LT GEAR		CA930510413
	,	ON FLOATS. GEAR SE DUND OUT OF ADJUST		NO LIGHT FOR LT GI	EAR AND GEAR PU	MP LIGHT STAYED ON. M.	ARKERS ON TOP OF FLOAT	INDICATEI	O GEAR DOWN OK.
5711		MOONEY				SPAR	DAMAGED	4103	3/24/93
		M20E				210057	WING CENTER		CA930331418
	TUBÉ. SPAR-WEB	MISSING A PIECE OF	MATERIAL ABOVE U	PPER BOLT-HOLE OF	BRACKET AS WEL		TION WHERE FLAP ACTUAT DOWN. POSSIBLE CAUSES IOURS.		
7712		MTSBSI	GARRTT		GARRTT	GEAR SHAFT SPUR	BROKEN	3956	3/11/93
		MU2B35	TPE3316251M		31017262	8968042	TORQUE SENSOR		CA930322101
	SINGLE ENGINE L SENSOR HAD A B	ANDING WAS CARRIE ROKEN GEAR SHAFT. E CONFINED TO THE T	D OUT. THE ENGINE THE SHAFT WAS BRO	WAS REMOVED FOR	R INVESTIGATION .	AND REPAIR. WHEN THE E HE WOODRUFF DRIVE KEY	NE FLAMED OUT. THE ENC ENGINE GEARBOX WAS OPI SLOT. THE SHAFT WAS RI	ENED, FOUN ETAINED IN	ND THE TORQUE DRIVE GEAR AND
2740		PARTEN				CABLE	BROKEN	783	
		P68C				68530211	STABILATOR		CA930316602
	(CAN) ONE WIRE	FOUND BROKEN AT FO	ORWARD PULLEY ON	LT FRONT STABILA	TOR CABLE.				
2750		PIPER	LYC		PIPER	HORN	CRACKED	3811	4/8/93
		PA23250	IO540C4B5		1825402	1642400	FLAP		CA930428601
		R1 BEING CARRIED O ORN. LIKELY CAUSED			IN WELD AREA AN	ND ALSO DEEP PITTING. TA	APPING WITH SCREW DRIV	ER COLLAP	SED MATERIAL ON
5312		PIPER				BULKHEAD	CRACKED	3400	3/3/93
		PA24250				2365602	STA 87		CA930324203
	REPAIRED AND N RAILS OVER CAR	UT PLATE INSTALLED PET, CAN PUT EXCESS	. SEAT RAILS HAD B IVE STRESS ON NUT	EEN MOUNTED OVEI PLATE ATTACHMEN'	R CARPET WITH FO T AREA. SUBMITT	OAM BACKING ON CORD-L	LATE WAS CRACKED OUT A IKE BASE; THUS, VERY DIF NE OTHER CASE. HE ALSO LUDE CARPETING.	FICULT TO	FIRMLY MOUNT SEAT
2810		PIPER	LYC			TANK	LEAKING	5618	3/10/93
		PA28151	O360A1A				LT FUEL		CA930318402
	'			,			K DRAIN. FLANGE COVER FINTERGRANULAR CORRO		ATED ABOUT 2
3233		PIPER				ACTUATOR	SEPARATED	7570	3/23/93
		PA28R200				3579702	NLG		CA930415514
	LEAVING BEARIN		AND REMAINED AT	TACHED AT FORWA	RD END OF ACTUA		TUATOR FOUND SEPARATE OK. THIS INCIDENT SHOWS		
2410		PIPER	LYC			BRACKET	BROKEN		4/16/93
		PA31350	TIO540J2BD			LW18759	ALTERNATOR MOUNT		CA930422202
	(CAN) DURING RO	OUTINE INSPECTION. T	HE ALTERNATOR ID	LER BRACKET WAS I	FOUND BROKEN. N	JEAR INBOARD ATTACHM	ENT POINT.		

3/8/98 To 3/14/98 ISSUE: 98-11 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2434		PIPER			PRESTOLITE	BEARING	DESTROYED		3/18/93
		PA31			ALU8421R	902014	ALTERNATOR		CA930330204
	,	END BEARING FOUND LY TO ALV SERIES AL		ED. THIS CAUSED A	MECHANICAL FAIL	URE AND POWER LOSS. N	IOT MUCH LUBRICANT FOU	IND IN BEA	RING CAVITY. AD 76-
2820		PIPER			AEROQUIP	HOSE	LEAKING	8500	4/5/93
		PA31350				41230006	FUEL TO FIREWALL		CA930415518
	,	FOUND LEAKING AT I				10 YEARS IN SERVICE. SU	BMITTER SUGGESTED THIS	HOSE SHO	ULD BE ADDED TO
3230		PIPER				WIRES	BROKEN	12662	3/18/93
		PA31350					LT LDG SWITCH		CA930415519
	LT LÉG. PARTICL						I. BROKEN WIRES FOUND (BEGAN TO LEAK AT SEAL I		
2120		PIPER	PWA		PIPER	HOSE	DISCONNECTED		8/1/92
		PA31T	PT6A28		4650400	499006	PRESSURE BLKHD		CA930510409
	(- ,	RIZATION IN-FLIGHT. FIRST OCCURRENCE.	AIR DISTRIBUTION D	UCT DISCONNECTEI	O AT FORWARD PRI	ESSURE BULKHEAD. SECO	OND OCCURRENCE. ALL CL	AMPS TENS	SIONS HAD BEEN
2730		PIPER				BUNGEE	WORN	4300	4/1/93
		PA31T2				819482	ELEV CABLE		CA930510408
	(CAN) UP ELEVAT	OR CABLE BUNGEE O	UTER CASING WORN	THROUGH BY WASH	HER INSIDE UNIT.				
3010		PIPER	PWA			RELAY	BURNT		4/5/93
		PA31T3	PT6A11			159S0011240	DEICER TIMER		CA930429201
	'	IEDDING. INSP FOUND HEATED. THIRD OCCU			UT AND OUTPUT LE	EADS BURNT AND DISCON	NECTED FROM RELAY. RE	LAY AND (OTHER WIRES
3232		PIPER	PWA		WIEBEL	PISTON	BROKEN		2/9/93
		PA31T	PT6A28		WTC21141	757500	LT INB DOOR		CA930510410
	(CAN) IN CRUISE, ATTACH POINT.	LANDING GEAR TRAN	SITION RED LIGHT C	AME ON. GEAR EXT	ENDED NORMALLY	Y. LT INBOARD GEAR DOO	OR ACTUATOR SHAFT FOU	ND BROKE	N NEAR GEAR DOOR
5280		PIPER				FORGING	BROKEN	3857	3/15/93
		PA31T			4752932	466522	LDG GEAR DOOR		CA930326201
	,	ND BROKEN. DOOR W					YCLED DOWN NORMALLY.). SUBMITTER SUGGESTED		
2430		PIPER	GARRTT		CUTLERHAM	CONTACTOR	STUCK	2682	10/22/92
		PA421000	TPE33114A			SM400D24	LT GEN		CA930511406
	(CAN) LEFT ENGIN	NE CRANKING OVER W	VHEN GPU CONNECT	ED. LEFT GENERATO	OR CONTACTOR ST	UCK IN CLOSED POSITION	V. PART TC: 3,336.		
3411		PIPER				STATIC SYSTEM	FROZEN		1/7/93
		PA46350P					LINES		CA930430411
	STOPPED AT FL 22	26 WHILE VSI READING	G "0". AFTER DESCEN	DING FOR A WHILE,	, PILOT WAS REMIN	IDED TO SELECT ALT STA	ENT AND NOTICED ALTIMI TIC AIR AND ON SELECTIO RUMENTS NEEDED REPAIF	N, ALTIME	ΓER SPUN DOWN TO

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6320		BELL				MAIN CASE	CRACKED	780	4/6/93		
		205A1				204040353023	M/R XMSN		CA930426302		
	(CAN) TRANSMISS	SION MAIN CASE CENT	ERE WEB CRACKED	BEYOND LIMITS.							
6410		BELL				BLADE	DELAMINATED	4538	3/15/93		
		205A1				212010750009	T/R		CA930323103		
	(CAN) AFTER TAK	EOFF UNUSUAL NOISE	E AND VIBRATION. (CONTROL NORMAL.	INSPECTION REVEA	ALED TAIL ROTOR BLADE	SKIN DEBONDED.				
2800		BELL				ACCUMULATOR	CRACKED		5/20/93		
		206L				6875224	FUEL SYS		CA930506601		
	(CAN) AIRCRAFT ACCUMULATOR I		OW NORMAL IDLE	(62 PERCENT) TO 50 F	PERCENT WHEN THI	ROTTLE CHANGED FROM	FULL RPM TO GROUND ID	DLE. A CRAC	K WAS FOUND IN TH		
5302		BELL				SUPPORT	CRACKED	4582	2/14/93		
		206B				206033003141	TAILBOOM		CA930318516		
	(CAN) DURING 1,2	200 HR INSPECTION, A	CRACK WAS FOUND	AT THE TAILBOOM	DOOR. REPAIRED A	AS PER TB 206-87-122. ACF	T TT: 4,894 HOURS.				
312		BELL				BULKHEAD	CRACKED	4582	2/15/93		
		206B				206031302183	AFT CABIN		CA930318518		
	(CAN) DURING 120	(CAN) DURING 1200 HR INSPECTION, A CRACK ON THE AFT CABIN BULKHEAD WAS FOUND, WAS REPAIRED IAW BELL STRUCTURAL REPAIR MANUAL 3.5.3. ACFT TT: 4,894 HOURS.									
5320		BELL				CLIP	CRACKED		3/3/93		
		206L				206033407119	BS 153.79		CA930318601		
	(CAN) WHILE PER	FORMING ASB 206L 87.	47, A CRACK WAS N	OTICED ON THE CLI	P AT BS 153.79. ACF	T TT: 11,927 HOURS.					
230		BELL	ALLSN			VANE	FRACTURED	1091	4/11/93		
		206B	250C20			6877410	COMP 6TH STG		CA930422210		
		BINE OUTLET TEMPERA H STAGE AND DAMAG			CASE INSPECTION	REVEALED MISSING 6TH	STAGE VANE AND SUBSE	QUENT DAM	IAGE TO OTHER		
720		BOLKMS				PITCH LINK	WORN	489	4/9/93		
		BO105C				10531821	T/R		CA930413201		
	,	TAIL ROTOR KICK AN SEVERELY WORN. BI			, FORWARD T/R PIT	CH LINKS OUTER SPHERI	CAL BEARING HAD SEPAR	ATED FROM	BODY OF PITCH		
322		BOLKMS	ALLSN			BOOST PUMP	SHORTING OUT	<u> </u>	4/6/93		
		BO105C	250C20B			D107318D1	FUEL SYS		CA930426602		
	(CAN) PRESSURE	FLUCTUATING, CIRCUI	T BREAKER TRIPS.								
610		HUGHES				CANOPY	SHATTERED		3/19/93		
		269C				269A2275907	COCKPIT		CA930408501		
	(CAN) FOLLOWIN	G CONTACT WITH POW	VER LINES THE CAN	OPY SHATTERED, IN	JURING THE PASSE	NGER. ACFT TT: 8,065 HC	OURS.				
5310		HUGHES	LYC			SPRING ASSY	WORN		3/10/93		
		269C	HIO360D1A			269A5590007	M/R DRIVE		CA930318514		
	(CAN) DURING IN:	SPECTION PER AD 93-0	1-01 OF CLUTCH CO	NTROL SPRING, THE	RETAINER/HOUSING	G WAS FOUND WORN, PO	SSIBLY BY CLEVIS PIN				

<u>INTERNA</u>	ATIONAL SERVIC	E DIFFICULTY RE	PORT SUMMARY	Y - HELICOPTER	S (cont'd)		<u>3/8/98 To 3</u>	8/14/98 ISS	SUE: 98-11 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7210		HUGHES	ALLSN		ALLSN	GEAR	WORN	2494	6/20/93
		369HS	250C20		6877180	6889700	GEARBOX		CA930318515
	(CAN) CHIP DETEC	CTOR LIGHT CAME ON	IN-FLIGHT. INSPECT	TION FOUND GEAR I	N GEARBOX WORN A	AND FRETTED. GEAR WA	S REPLACED. PART TC: 1	1,152.	
7210		HUGHES	ALLSN		ALLSN	GEAR	WORN	2494	6/20/93
		369HS	250C20		6877180	6889701	GEARBOX		CA930325701
	(CAN) CHIP DETEC	CTOR LIGHT CAME ON	IN FLIGHT. INSP FO	UND GEAR IN GEARI	BOX WORN AND FRE	TTED GEAR WAS REPLAC	CED.		
7320		HUGHES	ALLSN			FUEL CONTROL	STUCK	1952	1/10/93
		369HS	250C20			23034702	ENGINE		CA930318517
	'	LLED FOLLOWING OVE EPAIR SHOP, NO FAULT				LD NOT SHUT DOWN. EN	GINE STOPPED WHEN FUR	EL SHUTOFF	VALVE CLOSED. FCU
7931		HUGHES	ALLSN			TRANSDUCER	SHORTED		3/16/93
		369HE	250C10		369A4534	15064600132050	ENG OIL PRESS		CA930325302
	(CAN) DURING PR	E-FLIGHT, OIL PRESSU	RE AT 25 POUNDS W	ITH ENGINE OFF. IN	TERNAL SHORT WIT	HIN TRANSDUCER.			
7322		ROBSIN	LYC		MARVELSCHEB	CARBURETOR	DEFECTIVE	304	4/7/93
		R22BETA	O320B2C			A105217	JET TUBE		CA930429203
	(CAN) ACCELERA	TION JET TUBE DETAC	HED FROM VENTUR	HOUSING AND FOU	ND LYING IN THE A	IR BOX. IT APPEARED TO	HAVE BEEN GLUED TO T	THE HOUSING	J.
7250		SKRSKY	GE			TURBINE	EXPLODED	5500	4/14/93
		S61N	CT581401			4002T96P02	NR 2 ENG	450	CA930414101
****	(CAN) DURING HE	EAVY LIFT LOGGING, T	HE NR 2 ENGINE 2ND	STAGE TURBINE D	ISC EXPLODED. THE	E NR 1 ENGINE DID NOT S	UPPLY POWER TO THE RO	OTOR AND T	HE HELICOPTER

(CAN) WIRE HARNESS P/N 76552-0167-042 CHAFED AND SHORTED AGAINST HYDRAULIC HOSE P/N SS48C2C16500 CAUSING A PINHOLE TO FORM. UNDER PRESSURE, ALL HYDRAULIC

HOSE

SS48C2C16500

CHAFED

NR 2 HYD SYS

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

SKRSKY

FLUID FROM NR 2 SYSTEM WAS DUMPED OVERBOARD.

S76A

CRASHED AND BURNED.

2910

1036 3/10/93

CA930416601

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
8520		BBAVIA	LYC		LYC	CAMSHAFT	WORN	1360	1/27/93	
		7ECA	O235C1			75706	CAM LOBES		CA930510411	
	(CAN) ENGINE RE RETURNED TO SE		ON DUE TO PROPELI	LER STRIKE. DISMAN	NTLING OF ENGINE R	EVEALED 5 OF 6 CAM LC	BES SEVERELY WORN. EN	GINE OVEI	RHAULED AND	
7210		BEECH	PWA		PWA	GEAR SHAFT	WORN	369	1/6/93	
		B100	PT6A28			3013880	NP TACH DRIVE		CA930324201	
	(CAN) NP TACHO!	METER DRIVE WORN.	PART TOTAL CYCLE	ES, 500.						
7314		ВЕЕСН	PWA		SUNDSTRANDEM	COUPLING	STRIPPED	9853	4/2/93	
		200CBEECH	PT6A42		02532330003	J500576V83	FUEL PUMP TO AGB	2454	CA930416405	
	(- 1)	NE FLAMED OUT AT FL IPPED. PUMP AND COU					BETWEEN THE HIGH PRESS	SURE FUEL	PUMP AND THE	
3520		BEECH	LYC			ROD BEARING	WORN	400	6/16/93	
		65B80	IGSO540A1D				NR 4 CYLINDER		CA930422205	
	COMPRESSION TE		DER LOW. WHEN T	HE CYLINDER WAS F			OUNT OF METAL CONTAM CE IN THE CONNECTING RC			
8520		ВЕЕСН	CONT		CONT	CONNECTING ROD	BROKEN	1173	4/20/93	
		95B55	IO470L			628752	NR 1 CYLINDER		CA930510303	
	(CAN) DURING FLIGHT, PILOT FELT A SLIGHT YAW TO THE RIGHT AND THEN A BANG WAS HEARD. OIL PRESSURE DROPPED OFF. THE ENGINE WAS SECURED AND THE PROPELLER FEATHERED. INVESTIGATION REVEALED A LARGE HOLE IN THE FORWARD END OF THE ENGINE CASE WHERE THE NR 3 CYLINDER CONNECTING ROD HAD COME THROUGH.									
7240		BEECH	PWA			CASE	CRACKED	10148	3/30/93	
		99	PT6A20			3014196	GAS GENERATOR	2370	CA930407202	
		(CAN) DURING INSPECTION A 1.50 INCH CRACK WAS FOUND IN THE GAS GENERATOR CASE. THE CRACK WAS AT THE 3 O'CLOCK POSITION, AT THE FUEL NOZZLE, JUST UNDER THE CASE WELD. THIS AREA WAS INSPECTED 40 HOURS PREVIOUSLY AND NO CRACKS WERE OBSERVED. PART TC: 2,809.								
230		BELL	ALLSN			VANE	FRACTURED	1091	4/11/93	
		206B	250C20			6877410	COMP 6TH STG		CA930422210	
		BINE OUTLET TEMPERA H STAGE AND DAMAG			CASE INSPECTION R	EVEALED MISSING 6TH	STAGE VANE AND SUBSEQ	UENT DAM	IAGE TO OTHER	
322		BOLKMS	ALLSN			BOOST PUMP	SHORTING OUT		4/6/93	
		BO105C	250C20B			D107318D1	FUEL SYS		CA930426602	
	(CAN) PRESSURE	FLUCTUATING, CIRCU	T BREAKER TRIPS.							
530		CESSNA	LYC			CYLINDER	CRACKED	1506	4/8/93	
		152	O235L2C				NR 4 CYLINDER		CA930422211	
	'	OMPRESSION CHECK, A PARK PLUG HOLE ARO			LINDER. FURTHER IN	NVESTIGATION REVEAL	ED A CRACK ON THE AFT S	DE OF THE	E CYLINDER RUNNIN	
414		CESSNA	LYC		SLICK	COIL	FAILED	1070	4/12/93	
414		172M	O320E2D		4271	M3525	MAGNETO		CA930429202	
					12/1	11133223	MITORIETO		CA750427202	

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		CESSNA	LYC			CYLINDER	CRACKED	1192	5/1/93
		172G	VO540B1B3			75172	NR 4 CYL RKER	300	CA930511403
	(CAN) ENGINE OP IN THE OUTBOAR		UPON LANDING, OI	L LEAK OBSERVED N	NR 4 CYLINDER. INSP	ECTION REVEALED A BR	OKEN ROCKER SHAFT HO	USING (INB	OARD) AND A CRAC
8530		CESSNA	LYC			CYLINDER	CRACKED	660	3/31/93
		172M	O320E2A			75907	NR 3		CA930416604
	` /	SPECTION, A CRACK W CHROME CYLINDER.	AS DETECTED IN N	R 3 CYLINDER. THE C	CRACK WAS BETWEE	N THE COOLING FINS AN	ID RAN FROM THE EXHAU	ST PORT TO	THE SPARK PLUG.
3530		CESSNA	CONT		CONT	PISTON	FAILED	482	2/7/93
		175	GO300A			626146	NR 3		CA930326204
8520	FOUND EXHAUST		G WERE VERY DARK	AND HAD HEAVY O			MERGENCY DESCENT AND NS CRACKED WITH NR 3 PI		
3520		CESSNA	CONT			BEARING JOURNAL	SPUN	1216	1/25/93
		182A	O470L				CRANKCASE		CA930416401
	(CAN) ENGINE RE	CEIVED FOR OVERHAU	UL. INSPECTION AFT	ER DISMANTLING R	EVEALED NR 3 MAIN	BEARING JOURNAL SPU	N IN CRANKCASE.		
3530		CESSNA	CONT			GUIDE VALVE	WORN	225	3/18/93
		182D	O470L				ENG EXH		CA930323101
	SHAVINGS WERE	LOCATED IN THE BOT LE CAUSED BY DEFECT	TOM OF ROCKER CO	VERS. LARGE AMOU		HAVINGS SHOW PISTON	S OF MAGNETIC PARTICLE PIN OR POSSIBLE OIL PUM		
520		CECCNIA	CONT			BEARING	WORN	921	2/26/02
		CESSNA							3/26/93
		210A	IO470E				NR 2 MAIN		3/26/93 CA930407207
	` /	210A ENGINE FOR PROPELL	ER STRIKE INSPECTI		*	AIN BEARING BADLY WO	ORN AND ON THE VERGE (OF ROTATIN	CA930407207
	` /	210A ENGINE FOR PROPELL	ER STRIKE INSPECTI		*		ORN AND ON THE VERGE (CA930407207
	` /	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE	ER STRIKE INSPECTI EARING SADDLE WO		*	IS NOT CAUSED BY PRO	ORN AND ON THE VERGE (PELLER STRIKE.		CA930407207 IG AND CUTTING OF
	OIL SUPPLY. CRA	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN	RN/DAMAGED SEVEI D RISING OIL TEMP F	RELY. THIS DAMAGE	IS NOT CAUSED BY PROPERTY OF THE PROPERTY OF T	ORN AND ON THE VERGE OPELLER STRIKE. PITTED	1612 16	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209
550	OIL SUPPLY. CRA	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN	RN/DAMAGED SEVEI D RISING OIL TEMP F	RELY. THIS DAMAGE	IS NOT CAUSED BY PROPERTY OF THE PROPERTY OF T	ORN AND ON THE VERGE OPELLER STRIKE. PITTED OIL PUMP	1612 16 VALVE FO	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209
3550	OIL SUPPLY. CRA	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FIL	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN TER ALSO INSTALLE	RN/DAMAGED SEVEI D RISING OIL TEMP F	RELY. THIS DAMAGE 632623A22 ROM LT ENGINE. EN	IS NOT CAUSED BY PROP VALVE 642336 GINE SHUTDOWN BY PIL	ORN AND ON THE VERGE OPELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF	1612 16 VALVE FO	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209 UND WITH VALVE
550	OIL SUPPLY. CRA (CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RU	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FIL DHAV DHC2MK1 INNING ROUGH DURIN	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN TER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE	RN/DAMAGED SEVE D RISING OIL TEMP F ED.	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S	IS NOT CAUSED BY PROPOSED SET IN THE PROPOSED	ORN AND ON THE VERGE OF PELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF	1612 16 F VALVE FO 669 GNETO REM	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND
550	OIL SUPPLY. CRA (CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RU	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FIL DHAV DHC2MK1 INNING ROUGH DURIN	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN TER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE	RN/DAMAGED SEVE D RISING OIL TEMP F ED.	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S	IS NOT CAUSED BY PROPOSITION OF CAUSED BY PROP	ORN AND ON THE VERGE OPELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF WORN ENG LT MAG TO ENGINE OK. LEFT MAG	1612 16 F VALVE FO 669 GNETO REM D INSTALLE	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND
7414	OIL SUPPLY. CRA (CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RU	210A ENGINE FOR PROPELL INKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FILE DHAV DHC2MK1 INNING ROUGH DURIN ND DRIVE GEAR FROM	ER STRIKE INSPECTI EARING SADDLE WO CONT GTSIO520M G OIL PRESSURE AN TER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE I DRIVE SHAFT TO M	RN/DAMAGED SEVE D RISING OIL TEMP F ED.	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S	IS NOT CAUSED BY PROPOSITION OF CAUSED BY PROP	ORN AND ON THE VERGE OF PELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF WORN ENG LT MAG TO ENGINE OK. LEFT MAG. SERVICEABLE MAGNETO	1612 16 F VALVE FO 669 GNETO REM D INSTALLE	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND D.
2550	(CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RUINSPECTION FOUL	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FILE DHAV DHC2MK1 INNING ROUGH DURIN ND DRIVE GEAR FROM DHAV DHC3 DUTINE PERIODIC INSP	ER STRIKE INSPECTION OF THE ENCORD CONT GTSIO520M GOIL PRESSURE AND TER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE DRIVE SHAFT TO M PWA R134059 ECTION OF THE ENCORD	EN/DAMAGED SEVER D RISING OIL TEMP FED. ED LT MAGNETO ENCAGNETO ROTOR - AL	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S LL TEETH WORN OFF STROMBERGXXX N, MIXTURE LEVER IN	IS NOT CAUSED BY PROD VALVE 642336 GINE SHUTDOWN BY PIL MAGNETO SB9RU3 ELECTED RIGHT MAGNET- RESIDUE IN MAGNETIC CARBURETOR NAY9F1 I THE IDLE CUT-OFF POSI	ORN AND ON THE VERGE OF PELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF WORN ENG LT MAG TO ENGINE OK. LEFT MAG . SERVICEABLE MAGNETO FAILED	1612 16 F VALVE FO 669 GNETO REM D INSTALLE 22	CA930407207 IG AND CUTTING OF 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND D. 2/23/93 CA930415504
550 414 322	(CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RUINSPECTION FOUL	210A ENGINE FOR PROPELL NKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FILE DHAV DHC2MK1 INNING ROUGH DURIN ND DRIVE GEAR FROM DHAV DHC3 DUTINE PERIODIC INSP	ER STRIKE INSPECTION OF THE ENCORD CONT GTSIO520M GOIL PRESSURE AND TER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE DRIVE SHAFT TO M PWA R134059 ECTION OF THE ENCORD	EN/DAMAGED SEVER D RISING OIL TEMP FED. ED LT MAGNETO ENCAGNETO ROTOR - AL	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S LL TEETH WORN OFF STROMBERGXXX N, MIXTURE LEVER IN	IS NOT CAUSED BY PROD VALVE 642336 GINE SHUTDOWN BY PIL MAGNETO SB9RU3 ELECTED RIGHT MAGNET- RESIDUE IN MAGNETIC CARBURETOR NAY9F1 I THE IDLE CUT-OFF POSI	ORN AND ON THE VERGE OF PELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF WORN ENG LT MAG TO ENGINE OK. LEFT MAG SERVICEABLE MAGNETO FAILED ENGINE ITION, A LARGE AMOUNT OF	1612 16 F VALVE FO 669 GNETO REM D INSTALLE 22	CA930407207 IG AND CUTTING OI 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND D. 2/23/93 CA930415504
2550	(CAN) IN CRUISE, FACE PITTED. NE (CAN) ENGINE RUINSPECTION FOUL	210A ENGINE FOR PROPELL INKCASE NR2 MAIN BE CESSNA 404CESSNA PILOT NOTED FALLING W FULL FLOW OIL FILE DHAV DHC2MK1 INNING ROUGH DURIN ND DRIVE GEAR FROM DHAV DHC3 DUTINE PERIODIC INSP HE CARBURETOR INTA	ER STRIKE INSPECTION OF THE ENCIRCLE. EARING SADDLE WO CONT GTSIO520M GOIL PRESSURE ANTER ALSO INSTALLE PWA R985AN14B G CRUISE. SELECTE DRIVE SHAFT TO M PWA R134059 ECTION OF THE ENCIRCLE.	EN/DAMAGED SEVER D RISING OIL TEMP FED. ED LT MAGNETO ENCAGNETO ROTOR - AL	632623A22 FROM LT ENGINE. ENGINE VERY ROUGH. S LL TEETH WORN OFF STROMBERGXXX N, MIXTURE LEVER IN	IS NOT CAUSED BY PROPOSITION OF THE PROPOSITION OF	ORN AND ON THE VERGE OPELLER STRIKE. PITTED OIL PUMP OT. OIL PRESSURE RELIEF WORN ENG LT MAG TO ENGINE OK. LEFT MAG . SERVICEABLE MAGNETO FAILED ENGINE ITION, A LARGE AMOUNT OR	1612 16 F VALVE FO 669 GNETO REM D INSTALLE 22	CA930407207 IG AND CUTTING O 3/18/93 CA930330209 UND WITH VALVE 4/6/93 CA930416404 IOVED AND D. 2/23/93 CA930415504 AS OBSERVED

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7321		DHAV	PWA			FUEL CNTL UNIT	STIFF		3/22/93
		DHC6300	PT6A27			25244405	LT ENGINE		CA930413404
		AFT SLOWED. POWER					ARE. LEFT ENGINE RAN UP PROP FEATHERED AND ENG		
7532		DHAV	PWA		PWA	O-RING	MISSING		3/16/93
		DHC6300	PT6A27		3029174	AS3209012	COMP BLEED VALVE		CA930330201
		ING TORQUE REPORTE ALLOWING LEAKAGE I		EALED "O" RING FO	R THE PISTON SLEE	VE OF THE COMPRESSOR I	BLEED VALVE WAS MISSING	, CAUSIN	G PISTON TO SEAT
8520		GULSTM	LYC		LYC	CAMSHAFT LOBE	CRACKED	556	5/3/93
		500B	IO540E1A5				ENGINE		CA930503301
	` '	MOVED FROM AIRCRA AND SEVERELY WORN		CONTAMINATION. U	PON DISASSEMBLY	, IT WAS NOTICED THROU	GH INSPECTION THAT ALL I	LOBES ON	THE CAMSHAFT
7210		HUGHES	ALLSN		ALLSN	GEAR	WORN	2494	6/20/93
		369HS	250C20		6877180	6889700	GEARBOX		CA930318515
	(CAN) CHIP DETEC	CTOR LIGHT CAME ON	IN-FLIGHT. INSPECT	ΓΙΟΝ FOUND GEAR I	N GEARBOX WORN	AND FRETTED. GEAR WA	S REPLACED. PART TC: 1,15	2.	
7210		HUGHES	ALLSN		ALLSN	GEAR	WORN	2494	6/20/93
		369HS	250C20		6877180	6889701	GEARBOX		CA930325701
	(CAN) CHIP DETEC	CTOR LIGHT CAME ON	IN FLIGHT. INSP FO	UND GEAR IN GEARI	BOX WORN AND FR	ETTED GEAR WAS REPLAC	CED.		
7320		HUGHES	ALLSN			FUEL CONTROL	STUCK	1952	1/10/93
		369HS	250C20			23034702	ENGINE		CA930318517
	'	LLED FOLLOWING OVI EPAIR SHOP, NO FAULT			*	JLD NOT SHUT DOWN. ENG	GINE STOPPED WHEN FUEL S	SHUTOFF	VALVE CLOSED. FCU
8530		MOONEY	LYC			PISTON RING	COLLAPSED	11	3/23/93
		M20C	O360A1D		CE12ER	74241	NR 2 CYLINDER		CA930422215
	(CAN) AIRCRAFT I COLLAPSED.	LANDED WITH SMOKE	E COMING FROM THE	EXHAUST AND OIL	ON THE AIRCRAFT	BELLY. INSPECTION FOUR	ND NR 2 CYLINDER PISTON I	RINGS (P/	N'S 74241 AND 73857)
7322		MTSBSI	GARRTT		WOODWARD	MAIN FUEL CONTRL	FAILED	1295	3/19/93
		MU2B35	TPE3316			89356112	NR 1 ENGINE		CA930323102
	REDUCING POWE		SHUT OFF AND THE	PROP FEATHERED A	ND A SINGLE ENGIN	NE LANDING WAS CARRIEI	W AND THE POWER LEVER F D OUT. INSP FOUND THE FU		
7414		PIPER	LYC			SEAL	LEAKING	71	3/26/93
		PA18A	O290D2				MAGNETO RT		CA930413411
		ON THROTTLE CONTE G. NO ABNORMAL PR					FOUND OIL CONTAMINATE	D. SEAL	LEAKING ALLOWING
8520		PIPER	LYC			BEARING	DAMAGE	2403	3/1/93
		PA28R200	IO360C1C				CRANKCASE	822	CA930407208
	` '			,			ON THE VERGE OF ROTATIING ON THE VERGE OF ROTATIING DAMAGE IS NOT		

INTERNATIONAL	SERVICE DIFFICUI	TY REPORT SUMMARY	ENGINES (cont'd)
	. SER VIU.E DIEFIU.UI	TI KEEUK LAUWINAKI	- CINCTUNES (COM O)

3/8/98	To 3/14/98	ISSU	JE: 98-11	ZAC-327	
PART COND	T	Т	DIFF. DAT	ΓE	
		_			

PA31 TIO540A2C LW12030 NR 6 CYL AREA CA930413407 (CAN) SMALL OIL LEAK ON NR 2 ENGINE INSPECTION REVEALED CRANKCASE CRACK IN AREA OF NR 6 CYLINDER. 8820 PIPER LYC HYD TAPPET BROKEN 1565 4/5/93 PA31350 TIO540J2BD 72877 NR 3 CYL EXHAUST CA930427503 (CAN) PILOT REPORTED VIBRATION ON RUDDER PEDALS AND 100 RPM MAG DROP AT 1,800 R.P.M. ON GROUND DIFFERENTIAL PRESSURE CHECK ON NRI CYLINDER SHOWED TO PRESSURE. NR 1 CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8850 PIPER LYC LYC STUD SHEARED PA31350 TIO540J2BD 69679 NR 3 CYLINDER CA930430430 (CAN) NR 1 ENGINE BEGAN RUNNING ROUGH IN FLIGHT WITH DROP IN ENGINE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RESERVICEABLE. 8850 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO540J2BD 72711 NR 16 INTIAKE 29 3/10/93 PA31350 TIO540J2BD 72711 NR 16 INTIAKE 29 CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PMA PA3150 BEARD AND A CRANKCASE THROUGH SEALD IN THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PMA PA320 PIF641 BEARING OFFSET, TURBOCHARGER BOOST WAS SHOWN OF SEAL SHOWN ON REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FLITTER MINOR METAL. IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR ARR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TO: 2.525. 7322 ROBSIN LYC MARVELSCHE ROOST OF THE METAL HOUSING AND FOUND LYING IN THE ALL ROMOR METAL. IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRI	ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
(CAN) SMALL OIL LEAK ON NR 2 ENGINE. INSPECTION REVEALED CRANKCASE CRACK IN AREA OF NR 6 CYLINDER. 8520 PIPER LYC HYD TAPPET BROKEN 1565 4/593 (CAN) PILOT REPORTED VIBRATION ON RUDDER PEDALS AND 100 RPM MAG DROP AT 1,800 R P.M. ON GROUND DIFFERENTIAL PRESSURE CHECK ON NR1 CYLINDER SHOWNED "O" PRESSURE. NR 1 CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8530 PIPER LYC LYC STUD SHEARD 4/1793 PA31350 TIOS40/2BD 6/6679 NR 3 CYLINDER CA9304510301 (CAN) NR 1 ENGINE BEGANR RUNNING ROLIGH IN FLIGHT WITH DROP IN ENGINE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WEEK REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/1093 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 8530 PIPER PWA BRANKON BOUGH AMAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 8530 PIPER PWA BRANKON BOUGH AMAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 8540 PIPER PWA BRANKON BOUGH AMAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 8550 PIPER PWA BRANKON BOUGH AMAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 8560 PIPER PWA BRANKON BOOKE TO AND MAION BOOK BOOK BOOK BOOK BOOK BOOK BOOK BO	8520		PIPER	LYC		LYC	CRANKCASE	CRACKED	1210	3/30/93
PIPER LYC HYD TAPPET BROKEN 1565 4/5/93 PA31350 TIO5402BD 72877 NR 3 CYL EXHAUST CA930427503 (CAN) PILOT REPORTED VIBRATION ON RUIDDER PEDALS AND 100 RPM MAG DROP AT 1,800 R.P.M. ON GROUND DIFFERENTIAL PRESSURE CHECK ON NR1 CYLINDER SHOWED 'O' PRESSURE. NR 1 CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8530 PIPER LYC LYC STUD SHEARED 14/17/93 PA31350 TIO54012BD 60679 NR 3 CYLINDER CROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO54012BD 17/2711 NR 1/6 INTAKE CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE 'O' RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHASGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 2974 4/26/93 PA42 PT6A41 BI802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INTITLAL INDESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILLER, MINOR METAL IN THE FORWARD OIL SCREEN FILLER. NO IILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTER. NO IILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTER. NO IILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTER NO IILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTER NO IILLUMINATION OF CHIP DETECTOR LIGHT. 12 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RAC			PA31	TIO540A2C			LW12030	NR 6 CYL AREA		CA930413407
PA31350 TIO540J2BD 72877 NR 3 CYL EXHAUST CA930427503 (CAN) PILOT REPORTED VIBRATION ON RUDDER PEDALS AND 100 RPM MAG DROP AT 1,800 R.P.M. ON GROUND DIFFERENTIAL PRESSURE CHECK ON NRI CYLINDER SHOWED "O" PRESSURE. NR 1 CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8530 PIPER LYC LYC STUD SHEARED 41/17/93 PA31350 TIO540J2BD 69679 NR 3 CYLINDER COUND IN SPICE COUNTY OF THE PROPERTY OF TH		(CAN) SMALL OIL	LEAK ON NR 2 ENGINE	E. INSPECTION REVE	ALED CRANKCASE (CRACK IN AREA OF	NR 6 CYLINDER.			
(CAN) PILOT REPORTED VIBRATION ON RUDDER PEDALS AND 100 RPM MAG DROP AT 1,800 R.P.M. ON GROUND DIFFERENTIAL PRESSURE CHECK ON NR1 CYLINDER SHOWED "O' PRESSURE. NR 1 CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8530 PIPER LYC LYC STUD SHEARED AND A CRANKCASE THOUGH BOLD TO THE OFFICE OF SHEARED AND A CRANKCASE THROUGH BOLD REGISTED AND A CRANKCASE THROUGH BOLD PROGREE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/1093 PA31350 TIO540J2BD TIO540J2BD 72711 NR 1/6 INTAKE CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OPERATION FOR THE SEALS WERE DEFORMED. THE SEALS BECAME OPERATION FOR	8520		PIPER	LYC			HYD TAPPET	BROKEN	1565	4/5/93
PRESSURE. NR I CYLINDER FOUND CRACKED. EXHAUST VALVE SEAT LOOSE DUE TO BROKEN TAPPET. 8530 PIPER LYC LYC STUD SHEARED 4/17/93 PA31350 TIO54012BD 69679 NR 3 CYLINDER CA930510301 (CAN) NR I ENGINE BEGAN RUNNING ROUGH IN FLIGHT WITH DROP IN ENGINE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO54012BD 727111 NR 1/6 INTAKE CA9303222303 (CAN) NR I ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR I AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 2974 426/93 PA42 PT6441 B1802 NR 2 ENGINE 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUARTO FO OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR I BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CABBURTOR DEFECTIVE 304 47/93 R22BETA 0320B2C MARVELSCHEB CABBURTOR DEFECTIVE 304 47/93 R22BETA 0320B2C MARVELSCHEB CABBURTOR DEFECTIVE 304 47/93 R22BETA 0320B2C BARTIT HARTZL BRACKET CRACKED THE HOUSING. (CAN) ACCELERATION JET TUBE DETECHED HOW NENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.			PA31350	TIO540J2BD			72877	NR 3 CYL EXHAUST		CA930427503
PA31350 TIO540J2BD 69679 NR 3 CYLINDER CA930510301 (CAN) NR 1 ENGINE BEGAN RUNNING ROUGH IN FLIGHT WITH DROP IN ENGINE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO540J2BD 72711 NR 16 INTAKE CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING SPALLING 2974 4/26/93 PA42 PT6441 B1802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE ADMONTO OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LICHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7261 ROBSIN LYC MARVELSCHE CARBURETOR DEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION DET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.								L PRESSURE CHECK ON NR	I CYLINDI	ER SHOWED "O"
(CAN) NR 1 ENGINE BEGAN RUNNING ROUGH IN FLIGHT WITH DROP IN ENGINE PARAMETERS. ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. GROUND INSPECTION FOUND NR 3 CYLINDER HOLD-DOWN STUDS SHEARED AND A CRANKCASE THROUGH-BOLT BROKEN. CYLINDER HOLD-DOWN STUDS WERE REPLACED AND ENGINE GROUND RUN SERVICEABLE. 8530 PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO540/J2BD 72711 NR 1/6 INTAKE CA930322203 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 2974 4/26/93 PA42 PT6441 B1802 NR 2 ENGINE 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHE CAP300429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 CCAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.	8530		PIPER	LYC		LYC	STUD	SHEARED		4/17/93
PIPER LYC LYC INDUCTION SEALS DEFORMED 299 3/10/93 PA31350 TIO540/2BD 72711 NR 1/6 INTAKE CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 2974 4/26/93 PA42 PT6A41 B1802 NR 2 ENG NR 1 CA930311407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHED CAPACITY JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRT HARTZL BRACKET CRACKED 3/25/93 C(CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.			PA31350	TIO540J2BD			69679	NR 3 CYLINDER		CA930510301
PA31350 TIO54012BD 72711 NR 1/6 INTAKE CA930322303 (CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 2974 4/26/93 PA42 PT6A41 BI802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR DEFECTIVE 304 47/193 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TNS 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.										
(CAN) NR 1 ENGINE WAS RUNNING ROUGH. MAINTENANCE FOUND THE NR 1 AND NR 6 CYLINDERS INDUCTION PIPE TUBE "O" RING SEALS WERE DEFORMED. THE SEALS BECAME OFFSET, TURBOCHARGER BOOST WAS DELIVERED. 7230 PIPER PWA BEARING SPALLING 974 4/26/93 PA42 PT6A41 B1802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR BEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.	8530		PIPER	LYC		LYC	INDUCTION SEALS	DEFORMED	299	3/10/93
PIPER PWA BEARING SPALLING 2974 4/26/93 PA42 PT6A41 B1802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR DEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.			PA31350	TIO540J2BD			72711	NR 1/6 INTAKE		CA930322303
PA42 PT6A41 B1802 NR 2 ENG NR 1 CA930511407 (CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR DEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.		(-), .			FOUND THE NR 1 AN	ID NR 6 CYLINDERS	INDUCTION PIPE TUBE "C	" RING SEALS WERE DEFOR	MED. THI	E SEALS BECAME
(CAN) AT FL 240, SLIGHT OIL SMELL AND SMOKE IN CABIN. WITHIN SECONDS, OIL PRESSURE FLUCTUATION AND MAJOR SMOKE IN CABIN. NR 2 ENGINE WAS SHUTDOWN AND AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR DEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.	7230		PIPER	PWA			BEARING	SPALLING	2974	4/26/93
AIRCRAFT LANDED. INITIAL INVESTIGATION REVEALED A MASSIVE AMOUNT OF METAL IN MAIN OIL FILTER, MINOR METAL IN THE FORWARD OIL SCREEN FILTER. NO ILLUMINATION OF CHIP DETECTOR LIGHT. 1/2 QUART OF OIL WITH METAL FLAKES. STRIP REPORT SHOWS SPALLING OF NR 1 BEARING OUTER RACE AND FRACTURE OF COMPRESSOR AIR SEAL ROTOR. SUBMITTER STATED CAUSE NOT DETERMINED. PART TC: 2,525. 7322 ROBSIN LYC MARVELSCHEB CARBURETOR DEFECTIVE 304 4/7/93 R22BETA 0320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.			PA42	PT6A41			B1802	NR 2 ENG NR 1		CA930511407
R22BETA O320B2C A105217 JET TUBE CA930429203 (CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. T261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.		AIRCRAFT LANDE	D. INITIAL INVESTIGA F CHIP DETECTOR LIGI	ATION REVEALED A M HT. 1/2 QUART OF OI	MASSIVE AMOUNT O L WITH METAL FLA	OF METAL IN MAIN O KES. STRIP REPORT	OIL FILTER, MINOR META	L IN THE FORWARD OIL SCR	EEN FILT	ER. NO
(CAN) ACCELERATION JET TUBE DETACHED FROM VENTURI HOUSING AND FOUND LYING IN THE AIR BOX. IT APPEARED TO HAVE BEEN GLUED TO THE HOUSING. 7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.	7322		ROBSIN	LYC		MARVELSCHEB	CARBURETOR	DEFECTIVE	304	4/7/93
7261 STBROS GARRTT HARTZL BRACKET CRACKED 3/25/93 SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.			R22BETA	O320B2C			A105217	JET TUBE		CA930429203
SC7SERIES3 TPE3312 HCB3TN5 8694971 L&R OILTANK MT CA930413410 (CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.		(CAN) ACCELERA	ΓΙΟΝ JET TUBE DETAC	HED FROM VENTURI	HOUSING AND FOU	ND LYING IN THE A	IR BOX. IT APPEARED TO	HAVE BEEN GLUED TO THE	E HOUSING	G.
(CAN) BRACKET FOUND CRACKED ON LT AND RT ENGINE OIL TANK MOUNTS.	7261		STBROS	GARRTT	HARTZL		BRACKET	CRACKED		3/25/93
			SC7SERIES3	TPE3312	HCB3TN5		8694971	L&R OILTANK MT		CA930413410
End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)		(CAN) BRACKET F	OUND CRACKED ON L	T AND RT ENGINE OI	L TANK MOUNTS.					
	(End of IN	ΓERNATIONAL SER	VICE DIFFICULTY F	REPORT SUMMARY	Y - ENGINES)					

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS</u>

3/8/98 - 3/14/98 ISSUE: 98-11 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
3416		BEECH			NARCO	ENCODER	MISADJUSTED		4/5/93			
		35C33				037530622	COCKPIT		CA930422204			
	(CAN) BLIND ENCODER GROUND CALIBRATION AS PER INSTALL MANUAL DID NOT WORK. CONSIDERABLE DIFFICULTY IN TRYING TO MAINTAIN DATA TRANSITION POINTS WITHIN +/- 125 FEET OF PILOT'S ALTIMETER. APPARENTLY, INSTALL MANUAL ADJUSTMENT LIMITS ARE WRONG.											
3120		CESSNA				FUSE	CORRODED	8385	3/23/93			
		152				0712031	COCKPIT CLOCK		CA930415513			
		(CAN) CLOCK UNUSABLE. INSPECTION FOUND FUSE AND DIODE ASSY BADLY CORRODED - WIRE BROKEN AND DIODE ALMOST CORRODED OFF. WIRE HAD SHORTED TO GROUND CAUSING MORE DAMAGE. A NUMBER OF OTHER COMPANY AIRCRAFT CHECKED AND FOUND WITH SIMILAR PROBLEM.										
6122		CESSNA		MCAULY		GOVERNOR	WORN ARM	1926	3/31/93			
		210R		D3A34C404		290D4FT4	PROP		CA930505401			
	'	ECTION OF THE PROP (THE STOPS. IN SOME					ROP GOVERNOR CONTROL E	SECOMES	EXCESSIVE AND			
2562		DHAV				ELT	ACTIVATED		3/18/93			
		DHC6200				ELT10	ON OFF SWITCH		CA930325301			
	(CAN) CALM AIR I	NFORMED ELT ACTIVI	E. BROKEN WIRE ON	ON/OFF SWITCH AN	ID PORTABLE ANTE	NNA INSULATION STRIP	OMITTED ON INSTALLATION					
(End of IN	and of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)											

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

3/8/98 - 3/14/98 ISSUE: 98-11 ZAC-327

ATA REG. NO OPER SERIAL NO

ACFT MAKE ACFT MODEL ENG MAKE ENG MDL PROP MAKE PROP MDL COMP MFG COMP MDL PART NAME PART NUMBER PART COND PART LOC.

TT DIFF. DATE
TSO OPER CONT NO

(There was no data for this report.)

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE

DISTRICT OFFICE												
AL 03	0	0	6	0	0	1	0	1	8			
AL 05	0	0	1	0	0	0	0	0	1			
CA	0	38	24	0	24	5	27	18	136			
CE 01	0	0	0	0	0	0	1	0	1			
EA 03	0	0	1	0	0	0	0	0	1			
EA 09	0	0	1	0	0	0	0	0	1			
EA 25	0	0	0	0	0	0	1	0	1			
EU 01	0	0	0	0	0	1	0	0	1			
GL 01	0	0	0	0	0	0	0	1	1			
NE 01	0	1	0	0	0	0	0	0	1			
NE 05	0	1	0	0	1	0	1	0	3			
NM 02	0	0	0	0	0	0	1	0	1			
NM 03	0	1	0	0	2	0	0	0	3			
NM 07	0	0	1	0	0	0	0	0	1			
NM 11	0	0	1	0	0	4	1	0	6			
NM 13	0	0	0	0	1	0	0	0	1			
SO 15	0	1	0	0	0	0	0	0	1			
SO 17	0	0	0	0	0	0	0	1	1			
SW 01	0	0	1	0	0	0	0	0	1			
SW 03	0	28	42	0	3	62	10	1	146			
SW 09	0	0	0	0	0	1	1	0	2			
SW 13	0	0	1	0	0	0	0	0	1			
WP 03	0	0	0	0	2	0	0	0	2			
WP 07	0	0	1	0	0	0	0	0	1			
WP 13	0	0	0	0	0	1	0	1	2			
WP 17	0	0	0	0	0	0	0	1	1			

GENERAL	AVIATION ST	UMMARY INDEX by	DISTRICT OFFICE	(cont'd)
OLIVLIAL	AVIALIONS			(COIII U)

GENERAL AVIATIO	N SUMMARY	INDEX by DIS	STRICT OFFICE	E (cont'd)			3/8/98 To	8 To 3/14/98 ISSUE: 98-11 ZAC-327		
DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER				
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL	
WP 23	0	0	0	0	0	0	1	0	1	
TOTALS	0	70	80	0	33	75	44	24	326	
(End of GENERAL AVI	ATION SUMMA	RY INDEX by D	ISTRICT OFFICE	E Report)						

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

3/8/98 To 3/14/98 ISSUE: 98-11 ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AGUSTA	A109A	0	0	0	0	0	0	1	0	1
AGUSTA	A109A2	0	0	0	0	0	0	1	0	1
AIRTRC	AT301	0	0	0	0	0	0	0	1	1
AYRES	S2RNORMAL	0	0	1	0	0	0	0	0	1
BBAVIA	7ECA	0	0	0	0	0	0	0	1	1
BBAVIA	8GCBC	0	6	0	0	2	0	0	0	8
BEECH	200BEECH	0	0	0	0	1	0	0	0	1
BEECH	200CBEECH	0	0	0	0	0	0	1	0	1
BEECH	35C33	0	0	1	0	0	0	0	0	1
ВЕЕСН	58P	0	0	0	0	1	0	0	0	1
BEECH	65B80	0	0	0	0	0	0	0	1	1
ВЕЕСН	95B55	0	0	0	0	0	0	0	1	1
BEECH	99	0	0	0	0	0	0	1	0	1
BEECH	A100	0	0	2	0	0	0	0	0	2
BEECH	A24R	0	0	0	0	1	0	0	0	1
BEECH	B100	0	0	0	0	0	0	1	0	1
BEECH	B200	0	0	0	0	1	0	0	0	1
BEECH	C90A	0	0	1	0	0	0	1	0	2
BEECH	E18S	0	0	0	0	0	0	0	1	1
BELL	205A1	0	0	0	0	0	1	0	0	1
BELL	205A1	0	0	0	0	0	1	0	0	1
BELL	206B	0	0	0	0	0	0	1	0	1
BELL	206B	0	0	0	0	2	0	0	0	2
BELL	206B3	0	1	3	0	0	1	0	0	5
BELL	206L	0	1	0	0	1	0	0	0	2
BELL	206L1	0	1	9	0	1	3	2	0	16
BELL	206L3	0	0	3	0	0	1	1	1	6

AIRCRAFT	AIRCRAFT					TA SYSTEM				
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
BELL	206L4	0	0	0	0	0	3	0	0	3
BELL	212	0	2	0	0	0	1	0	0	3
BELL	212	0	0	0	0	0	1	0	0	1
BELL	214ST	0	7	4	0	0	1	0	0	12
BELL	407	0	0	3	0	0	0	0	0	3
BELL	412	0	7	4	0	1	8	3	0	23
BOLKMS	BK117A3	0	1	0	0	0	0	0	0	1
BOLKMS	BK117A4	0	0	0	0	0	2	0	0	2
BOLKMS	BO105C	0	0	0	0	0	1	1	0	2
BOLKMS	BO105S	0	4	8	0	1	39	2	0	54
CESSNA	140	0	0	0	0	1	0	0	0	1
CESSNA	150B	0	0	0	0	1	0	0	0	1
CESSNA	150L	0	0	0	0	1	0	0	0	1
CESSNA	150M	0	1	0	0	0	0	0	0	1
CESSNA	152	0	0	1	0	0	0	0	1	2
CESSNA	152	0	0	0	0	0	0	1	0	1
CESSNA	170B	0	0	1	0	0	0	0	0	1
CESSNA	172	0	0	0	0	0	0	1	0	1
CESSNA	172G	0	0	0	0	0	0	0	1	1
CESSNA	172M	0	1	0	0	1	0	2	0	4
CESSNA	172M	0	1	1	0	0	0	0	1	3
CESSNA	172P	0	0	1	0	0	0	0	0	1
CESSNA	172Q	0	0	1	0	0	0	0	0	1
CESSNA	172R	0	1	0	0	0	0	0	0	1
CESSNA	175	0	0	0	0	0	0	0	1	1
CESSNA	180A	0	1	0	0	1	0	0	0	2
CESSNA	182A	0	0	0	0	0	0	0	1	1

AIRCRAFT	AIRCRAFT		SDR TOTALS BY FAA ATA SYSTEM CHAPTER									
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL		
CESSNA	182D	0	0	0	0	0	0	0	1	1		
CESSNA	182P	0	0	0	0	1	0	0	0	1		
CESSNA	182Q	0	0	0	0	1	0	0	0	1		
CESSNA	182R	0	0	1	0	0	0	0	0	1		
CESSNA	208B	0	3	0	0	1	0	1	0	5		
CESSNA	210A	0	0	0	0	0	0	0	1	1		
CESSNA	210D	0	0	1	0	0	0	0	0	1		
CESSNA	210L	0	0	0	0	1	0	0	0	1		
CESSNA	210L	0	0	1	0	0	0	0	0	1		
CESSNA	210R	0	0	0	0	0	1	0	0	1		
CESSNA	340A	0	0	0	0	0	0	1	0	1		
CESSNA	401	0	0	0	0	1	0	0	0	1		
CESSNA	402B	0	0	0	0	0	0	0	1	1		
CESSNA	402B	0	2	1	0	0	0	0	0	3		
CESSNA	404CESSNA	0	0	1	0	0	0	0	1	2		
CESSNA	441	0	0	3	0	0	0	0	0	3		
CESSNA	441	0	2	1	0	0	0	0	0	3		
CESSNA	500CESSNA	0	1	0	0	0	0	0	0	1		
CESSNA	501	0	1	0	0	0	0	0	0	1		
CESSNA	525	0	0	0	0	0	0	1	0	1		
CESSNA	A185E	0	0	1	0	0	0	0	0	1		
CESSNA	A185F	0	3	1	0	0	0	0	0	4		
CESSNA	R182	0	0	0	0	0	0	1	0	1		
CESSNA	U206	0	0	0	0	1	0	0	0	1		
CESSNA	U206F	0	0	1	0	0	0	0	0	1		
DHAV	DHC2*	0	0	1	0	0	0	0	0	1		
DHAV	DHC2MK1	0	0	0	0	1	0	1	0	2		

AIRCRAFT	AIRCRAFT	44.40			LS BY FAA A				00 0 =	mom
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
DHAV	DHC3	0	0	2	0	0	0	1	0	3
DHAV	DHC3	0	0	1	0	0	0	0	0	1
DHAV	DHC6	0	1	0	0	0	0	0	0	1
DHAV	DHC6100	0	0	0	0	0	0	1	0	1
DHAV	DHC6200	0	1	0	0	1	0	0	0	2
DHAV	DHC6300	0	1	1	0	0	0	1	0	3
DHAV	DHC6300	0	1	0	0	0	0	2	0	3
DOUG	MD900	0	0	0	0	0	2	1	0	3
GRUMAV	G21A	0	0	0	0	0	0	0	1	1
GULSTM	112A	0	0	1	0	0	0	0	0	1
GULSTM	500B	0	0	0	0	0	0	0	1	1
GULSTM	GA7	0	0	0	0	1	0	0	0	1
HUGHES	269C	0	0	0	0	1	0	0	0	1
HUGHES	269C	0	1	0	0	0	1	0	0	2
HUGHES	369HE	0	0	0	0	0	0	1	0	1
HUGHES	369HS	0	0	0	0	0	0	3	0	3
KAMAN	K1200	0	0	0	0	0	1	0	0	1
MAULE	M5210C	0	0	0	0	1	0	0	0	1
MAULE	M7235	0	1	1	0	0	0	0	0	2
MOONEY	M20C	0	0	0	0	0	0	0	1	1
MOONEY	M20E	0	0	0	0	1	0	0	0	1
MOONEY	M20J	0	0	0	0	0	0	1	0	1
MTSBSI	MU2B35	0	0	0	0	0	0	2	0	2
PARTEN	P68C	0	1	0	0	0	0	0	0	1
PIPER	PA18A	0	0	0	0	0	0	1	0	1
PIPER	PA23160	0	1	0	0	0	0	0	0	1
PIPER	PA23250	0	1	0	0	0	0	0	0	1

	TATION SUMMARY I	NDEA by MAINC	FACIURER		_	TO A CONTROL OF		5/6/96 10	<u>0 3/14/96 1330.</u>	E: 98-11 ZAC-32
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	61-67	71-79	80-85	TOTAL
PIPER	PA24250	0	0	0	0	1	0	0	0	1
PIPER	PA28140	0	0	1	0	0	0	0	0	1
PIPER	PA28151	0	1	0	0	0	0	0	0	1
PIPER	PA28180	0	0	0	0	2	0	0	0	2
PIPER	PA28R200	0	0	1	0	0	0	0	0	1
PIPER	PA28R200	0	0	0	0	0	0	0	1	1
PIPER	PA28RT201T	0	1	0	0	0	0	0	0	1
PIPER	PA31	0	1	0	0	0	0	0	0	1
PIPER	PA31	0	0	0	0	0	0	0	1	1
PIPER	PA31350	0	2	3	0	0	0	0	3	8
PIPER	PA31T	0	1	1	0	0	0	0	0	2
PIPER	PA31T	0	0	0	0	1	0	0	0	1
PIPER	PA31T2	0	1	0	0	0	0	0	0	1
PIPER	PA31T3	0	0	1	0	0	0	0	0	1
PIPER	PA32301	0	0	1	0	0	1	0	0	2
PIPER	PA42	0	0	0	0	0	0	1	0	1
PIPER	PA421000	0	1	0	0	0	0	0	0	1
PIPER	PA44180	0	0	0	0	0	0	0	1	1
PIPER	PA46350P	0	0	1	0	0	0	0	0	1
ROBSIN	R22BETA	0	0	0	0	0	0	1	0	1
SKRSKY	S61N	0	0	0	0	0	0	1	0	1
SKRSKY	S76A	0	5	8	0	0	3	1	0	17
SNIAS	AS350B1	0	0	0	0	0	1	0	0	1
SNIAS	AS350B2	0	1	0	0	0	1	0	0	2
SNIAS	AS350B2	0	0	0	0	0	1	0	0	1
STBROS	SC7SERIES3	0	0	0	0	0	0	1	0	1

(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)

TOTALS

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

<u>11 PL</u>	ACARDS AND MARKINGS	22 A	UTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100	PLACARDS AND MARKINGS	2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
		2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM
12 SF	ERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
	<u> </u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010	FUEL OFFICIONO	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210	FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220	OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230		2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240		2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 115	IELICOPTED VIDRATION	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
<u> 18 HE</u>	ELICOPTER VIBRATION	2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800	HELICOPTER VIB/NOISE ANALYSIS			2450	AC POWER DISTRIBUTION SYSTEM
1810	HELICOPTER VIBRATION ANALYSIS	<u>23 C</u>	<u>OMMUNICATIONS</u>	2460	DC POWER/DISTRIBUTION SYSTEM
1820	HELICOPTER NOISE ANALYSIS				
ALD CONDITIONING		2300	COMMUNICATIONS SYSTEM	<u>25 E</u>	<u> QUIPM ENT/FURNISHINGS</u>
<u>21 All</u>	R CONDITIONING	2310	HF COMMUNICATION SYSTEM	0.500	CARIN FOLURMENT/FURNICUINOS
2100	AIR CONDITIONING SYSTEM	2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110	CABIN COMPRESSOR SYSTEM	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120	AIR DISTRIBUTION SYSTEM	2320	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121	AIR DISTRIBUTION FAN	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
2130	CABIN PRESSURE CONTROL SYSTEM	2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131	CABIN PRESSURE CONTROLLER	2350	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132	CABIN PRESSURE INDICATOR	2360	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
2133	PRESSURE REGUL/OUTFLOW VALVE	2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134	CABIN PRESSURE SENSOR	24 F	ELECTRICAL POWER	2561	LIFE JACKET
2140	HEATING SYSTEM	27 -	ELLOTRICAL TOWER	2562	EMERGENCY LOCATOR BEACON
2150	CABIN COOLING SYSTEM	2400	ELECTRICAL POWER SYSTEM	2563	PARACHUTE
2160	CABIN TEMPERATURE CONTROL SYSTEM	2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
2161	CABIN TEMPERATURE CONTROLLER	2420	AC GENERATION SYSTEM	2565	ESCAPE SLIDE
2162	CABIN TEMPERATURE INDICATOR	2421	AC GENERATOR-ALTERNATOR	2570	ACCESSORY COMPARTMENT
2163	CABIN TEMPERATURE SENSOR	2422	AC INVERTER	2571	BATTERY BOX STRUCTURE
	51.5. T.	0.400	DUAGE ADADTED	2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 I	HYDRAULIC POWER	32 L	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FLIQUE CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30	ICE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>.IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31</u>	<u>INSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	<u>IAVIGATION</u>
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DATA SYSTEM	3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM		5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYSTEM	38 WATER/WASTE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN INDICATOR	3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SYSTEM	3820 WASH WATER SYSTEM	5301 A ERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM)	5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT, COMPUTER	5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	1000 GENTINE IIII III GOIII GTEN	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTEM	49 AIRBORNE AUXILIARY POWER	5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINING SYSTEM	4000 AIDDODNE ADU CVCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AIRBORNE APU SYSTEM 4910 APU COWLING/CONTAINMENT	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4920 APU CORE ENGINE	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4930 APU ENGINE FUEL & CONTROL	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4940 APU START/IGNITION SYSTEM	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950 APU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4960 APU CONTROLS	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERMINING SYSTEM	4970 APU INDICATING SYSTEM	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4980 APU EXHAUST SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM	4990 APU OIL SYSTEM	5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 ALOGIE GIGIEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCTURES	5345 FUSELAGE EQUIPMENT ATTACH FITTINGS
3455 ADF SYSTEM	FACO CTANDADD DDACTIOEC/CTDUCTUDEC	5346 POWERPLANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURES 5101 AIRCRAFT STRUCTURES	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES 5102 BALLOON REPORTS	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING SYSTEM	5102 BALLOON REPORTS	54 NACELLES/PYLONS
35 OXYGEN	52 DOORS	5400 NACELLE/PYLON STRUCTURE
	<u>01 </u>	5410 MAIN FRAME (ON NACELLE/PYLON)
3500 OXYGEN SYSTEM	5200 DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACLEEL/PTEON) 5412 BULKHEAD/FIREWALL (NAC/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5413 LONGERON/STRINGER (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5414 PLATE SKIN (NAC/PYLONS)
36 PNEUMATIC	5240 SERVICE DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
	5241 GALLEY DOORS	,
3600 PNEUMATIC SYSTEM 3610 PNEUMATIC DISTRIBUTION SYSTEM	5242 E/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3620 PNEUMATIC DISTRIBUTION SYSTEM 3620 PNEUMATIC INDICATING SYSTEM	5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3020 THEOMATIC INDICATING STSTEM	5244 ACCESSORY COMPARTMENT DOORS	5510 HORIZONTAL STABILIZER STRUCTURE
	5245 AIR CONDITIONING COMPART. DOORS	5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL	
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL	
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL	
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL	
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM	
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM	
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION		
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT	
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM	
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM	
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM	
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION	
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION	
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS	
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM	
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS	
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES		
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE	
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)	
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR	
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION	
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION	
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION	
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION	
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE	
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM	
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION	
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION	
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL	
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL	
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION	
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER	
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE		
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BLADE	7312 FUEL HEATER 7313 FUEL INJECTOR NOZZLE	
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM		
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP	
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM	
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC	
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR	
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR	
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER	
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM	
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING	
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING	
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR	
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR	

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75 / </u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
7530	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7531	COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	82	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0300	ACCESSORT GEARBOXES		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO	N	
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.